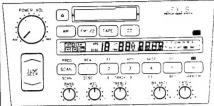




KEH-M9741ZT



7. Sep. 1989 Scheuer

The major stage of the a

ORDER NO. **CRT 1232**

CAR STEREO

19741zт

19741zT-91

1**9741**zt-02 US

US

US

US

US

These models have been installed in LEXUS LS400.

Model	Supplementary Model	Part No.	ID No.	Remark
KEH-M9741ZT	KEH-M9741ZT-91	86120-50040	P626	Leather
KEH-M9741ZT-02	KEH-M9741ZT-92	86120-50030	P625	Moquette
KEH-9641ZT	KEH-9641ZT-91	86120-50020	P624	Leather
KEH-9641ZT-02	KEH-9641ZT-92	86120-50010	P623	Moquette

Note:

- See the separate manual CX-156 (CRT-468) for the cassette mechanism description.
- Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
- Noise Reduction System manufactured under license from Dolby Laboratories Licensing Corporation.

• These models are used in combination with following models.

Car Stereo	CD Player	Amplifier
KEH-M9741ZT	CDX-M9741ZT	GM-9641ZT
KEH-M9741ZT-02	CDX-M9741ZT	GM-9641ZT
KEH-9641ZT		GM-9641ZT
KEH-9641ZT-02		GM-9641ZT

• KEH-M9741ZT-91, KEH-M9741ZT-92, KEH-9641ZT-91 and KEH-9641ZT-92 are the mode! number of an optional supplementary models.

These are indentical to the KEH-M9741ZT, KEH-M9741ZT-02, KEH-9641ZT and KEH-M9641ZT-02 except for the addition of following items.

	KEH-M9741ZT-91	KEH-M9741ZT-92	KEH-9641ZT-91	KEH-9641ZT-92
Corton	CHG1628	CHG1627	CHG1630	CHG1629
Contain Box				
Styrofoam (Upper)	CHP1157	CHP1157	CHP1157	CHP1157
Styrofoam (Lower)	CHP1158	CHP1158	CHP1158	CHP1158
Polyethylene Bag				

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1. SPECIFICATIONS

```
General
Grounding system ······ Negative type
  [7 \text{ (W)} \times 4-1/4 \text{ (H)} \times 6-1/8 \text{ (D) in.}]
  [8-7/8 \text{ (W)} \times 4-1/4 \text{ (H)} \times 1-1/4 \text{ (D) in.}]
Weight ..... 2. 8kg (6. 2 lbs)
Amplifier
Maximum power output \cdots 20W \times 4
Load impedance \cdots \qquad 4\,\Omega
Tone Controls
  (Bass) .... ± 10dB (100Hz)
  (Mid) .... ± 10 dB (1 kHz)
  (Treble) ..... ± 10dB (10kHz)
Tape player
Tape ...... Compact cassette tape (C30-C90)
Tape speed ........... 4.76 cm/sec. (+0.14 cm/sec., -0.05 cm/sec.)
Wow & flutter ········ Less than 0.15% (WRMS)
Crosstalk ..... More than 40 dB
Stereo separation ..... More than 30 dB
Signal-to-noise ratio
      Dolby NR IN ..... More than 45 dB
      Dolby NR OUT ..... More than 40 dB
FM tuner
Frequency range ······ 87.9-107.9 MHz
Usable sensitivity ······ 15±6dΒμV
Signal-to-noise ratio ····· More than 48 dB
Distortion · · · · Less than 1.5%
Stereo separation ······ More than 25 dB
AM tuner
 Frequency range ····· 530-1710 kHz
 Usable sensitivity \cdots 25\pm 6dB \mu V
Usable selectivity \cdots More than 30dB (\pm 9kHz)
 Signal-to-noise ratio ····· More than 40 dB
```



2. CONNECTOR FUNCTION DESCRIPTION

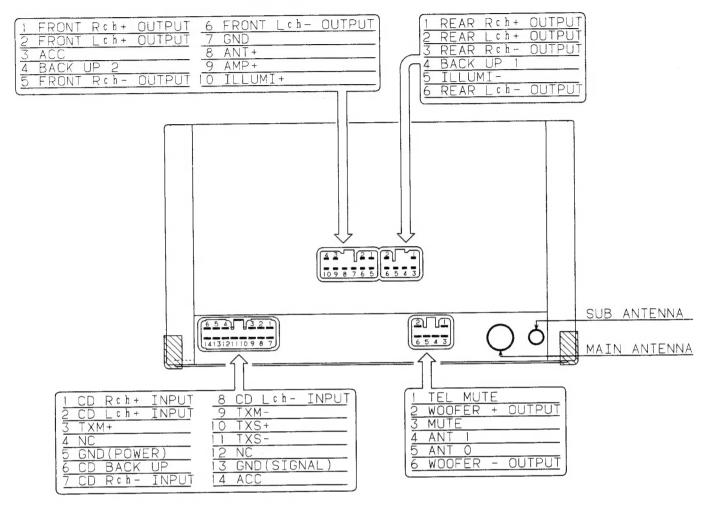


Fig. 1

3. DISASSEMBLY

Removing the Cover

- 1. Insert and turn a flat screwdriver to remove the cover.
- 2. Raise the cover to remove.

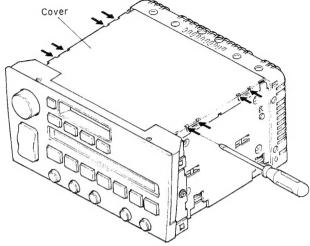


Fig. 2

• Removing the Cassette Mechanism Assy

- 1. Remove the four screws, and then remove the holder.
- 2. Disconnect the connector, and then raise the cassette mechanism assy.

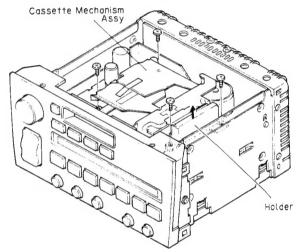


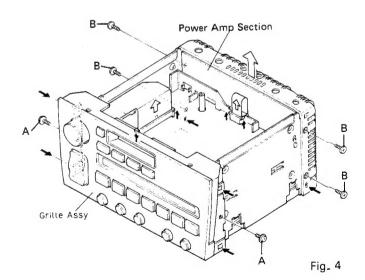
Fig. 3

• Removing the Grille Assy

- Disconnect the connector, and then remove the two screws A.
- 2. Disengage the stopper at four locations indicated by arrows.

Removing the Power Amp Section

- 1. Remove the four screws B.
- 2. Disengage the stopper at two locations indicated by
- 3. Raise the power amp P.C. board.





• Removing the Control Unit

- 1. Disconnect the two connectors.
- 2. Remove the four screws.
- 3. Remove the control unit.

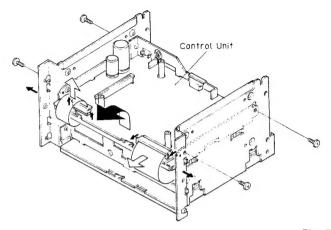


Fig. 5

• Removing the Heat Sink

- 1. Remove the screw C and four screws D.
- 2. Remove the heat sink.

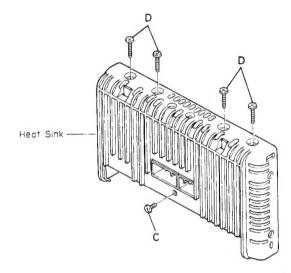


Fig. 6

Removing the Communication Unit (KEH-M9741ZT, KEH-M9741ZT-02)

- 1. Disconnect the two connectors.
- 2. Remove the three screws, and then remove the communication unit.

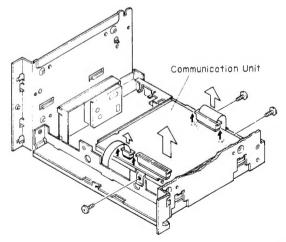


Fig. 7

• Removing the Tuner P.C. Board

- 1. Remove the two screws, and then remove the side panels.
- 2. Remove the solder at location indicated by arrow.
- 3. Straighten the claw, and then remove the tuner P.C. board.

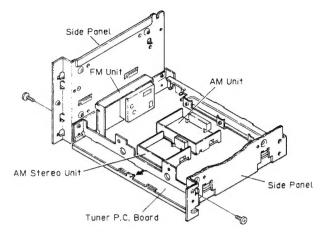


Fig. 8

Removing the FM Unit, AM Unit and FM Stereo Unit

- 1. Remove the solder at location indicated by arrows.
- 2. Straighten the claws.
- 3. Remove the each units.

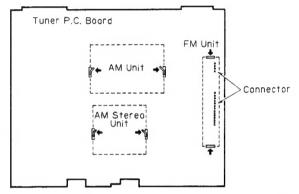


Fig. 9

Removing the Key Board Unit, Volume P.C. Board A and Volume P.C. Board B

- 1. Disconnect the two connectors.
- 2. Remove the twelve screws.
- 3. Remove the each units.

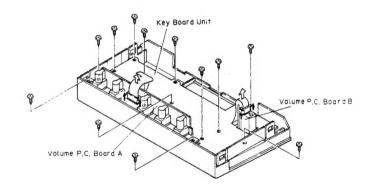


Fig. 10

4. ANTI-THEFT SECURITY SYSTEM

4.1 HOW TO INPUT THE THREE DIGIT SECURITY SYSTEM CODE

1. ACCESS MODE

First...

BE SURE THAT:

- · the radio unit is turned off
- the ignition switch is in "ACC"

Then...

HOLD the "1 [REW]" and "6 [D]]" buttons, and simultaneously PUSH and HOLD the "POWER. VOL" knob in, until "SEC" appears, then release buttons.

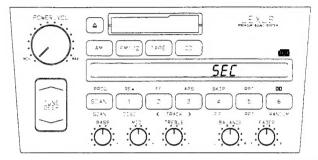


Fig. 11

2. READY MODE

PRESS and HOLD the "TUNE [\land]" button in and PRESS the "1 [REW]" button. The display will read " \oint ---".

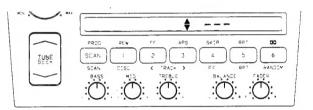


Fig. 12

3. INPUT MODE

Note: User has up to ten seconds to input each digit.

Now you're ready to input a three digit Identification Number.

To set the first ID digit:

 PRESS "1 [REW]" repeatedly until the desired number appears on the display

To set the second ID digit:

PRESS "2 [FF]" repeatedly until the desired number appears on the display

To set the third ID digit:

PRESS "3 [APS]" repeatedly until the final desired number appears on the display

EXAMPLE: If the desired ID number is 314, you'd press "1 [REW]" four times, press "2 [FF]" twice, and press "3 [APS]" five times. (Code digits range zero through nine.)

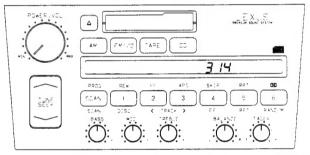


Fig. 13

4. SET MODE

With the ID number now appearing on the display:

 PRESS the "SCAN [PROG]" button and HOLD it in until "SEC" appears for a few seconds, then it will GO DARK.

NOTE: 1) CREATE AN ID NUMBER EASY TO REMEMBER

- 2) KEEP ID NUMBER IN A RELIABLE PLACE
- 3) DON'T LEAVE ID NUMBER IN THE VEHICLE!

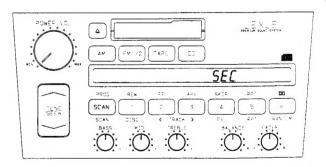


Fig. 14

4.2 HOW TO CHANGE THE THREE DIGIT SECURITY SYSTEM CODE

1. ACCESS MODE

First...

BE SURE THAT:

- the radio unit is turned off
- the ignition switch is in "ACC"

Then...

HOLD the "1 [REW]" and "6 [[][]" buttons, and simultaneously PUSH and HOLD the "POWER. VOL" knob in, until "SEC" appears, then release buttons.

2. READY MODE

PRESS and HOLD the "TUNE [\wedge]" button in and PRESS the "1 [REW]" button. The display will read "♦ ----".

3. INPUT MODE

Input existing three digit ID numbers.

4. SET MODE

Then, push "SCAN [PROG]." The display will now read "---" continuously.

* ("ERR" See "ERROR MESSAGE")

5. READY MODE

PUSH "TUNE [\land]" and "1 [REW]" simultaneously. The display will read " \blacklozenge ——".

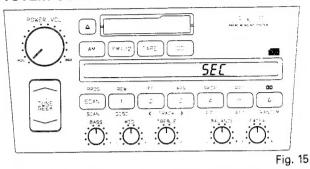
6. INPUT MODE

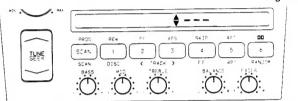
Now you're ready to input a new three digit Identification Number.

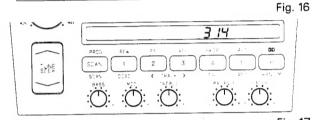
7. SET MODE

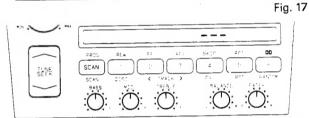
With the ID number now appearing on the display:

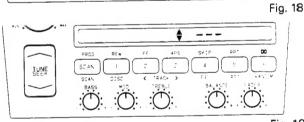
PRESS the "SCAN [PROG]" button and HOLD it in until "SEC" appears for a few seconds, then it will GO DARK.

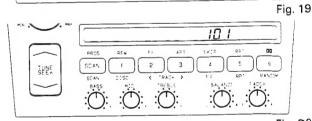












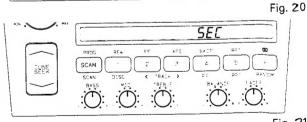


Fig. 21

4.3 HOW TO CLEAR THE SECURITY CODE

1. ACCESS MODE

First...

BE SURE THAT:

- · the radio unit is turned off
- the ignition switch is in "ACC"

Then.

HOLD the "1 [REW]" and "6 [D]]" buttons, and simultaneously PUSH and HOLD the "POWER. VOL" knob in, until "SEC" appears, then release buttons.

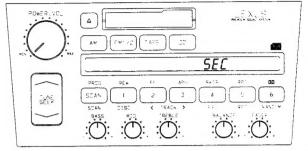


Fig. 22

2. READY MODE

PRESS and HOLD the "TUNE [\land]" button in and PRESS the "1 [REW]" button. The display will read " \blacklozenge ---".

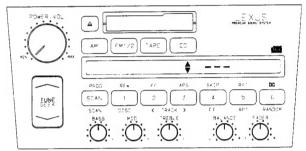


Fig. 23

3. INPUT MODE

Input existing three digit ID numbers.

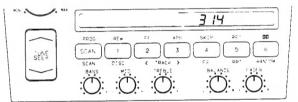


Fig. 24

4. SET MODE

Then, push "SCAN [PROG]." The display will now read "---" continuously.

* ("ERR" See "ERROR MESSAGE")

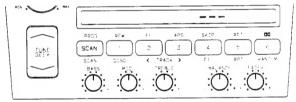


Fig. 25

- WAIT for ten seconds. The security system clears itself and the display will GO DARK.
 - * (The security code should be cleared when the vehicle is resold.)

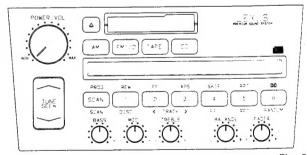


Fig. 26

4.4 HOW TO REACTIVATE A DISABLED ETR

 If the power is disconnected by an attempted theft or loss of battery power, the display will read "SEC" continuously when the key is "on." Also, when the ignition key is turned to ACC, none of the ETR functions will function.

2. READY MODE

PRESS and HOLD the "TUNE [\land]" button in and PRESS the "1 [REW]" button. The display will read " \blacklozenge ---".

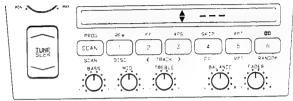


Fig. 27

3. INPUT MODE

Now you're ready to input the existing three digit Identification Number.

To set the first ID digit:

 PRESS "1 [REW]" repeatedly until the desired number appears on the display

To set the second ID digit:

PRESS "2 [FF]" repeatedly until the desired number appears on the display

To set the third ID digit:

PRESS "3 [APS]" repeatedly until the final desired number appears on the display

EXAMPLE: If the desired ID number is 314, you'd press "1 [REW]" four times, press "2 [FF]" twice, and press "3 [APS]" five times. (Code digits range zero through nine.)

Note: User has up to ten seconds to input each digit.



With the ID number now appearing on the display:

 PRESS the "SCAN [PROG]" button and HOLD it in until "SEC" appears for a few seconds, then it will GO DARK.

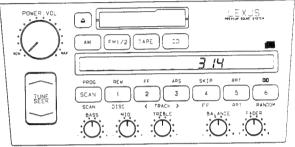


Fig. 28

Fig. 29

ERROR MESSAGE

If the wrong buttons are pushed, "Err" will appear before "SEC" appears. Go back to Step 2 and try again. Or, if the display returns to "♦ ----" during your input, try again from Step 3. BUT:

BE CAREFUL! On the fifth wrong input, the ETR unit goes dead and must be reactivated by an authorized service station

TO VERIFY that the ID number has been accepted as the security code, turn the key "off," then turn it back on, "SEC" should appear. Once the anti-theft system is properly set, "SEC" will appear on the display each time the ignition key is turned to "ACC" after being off.

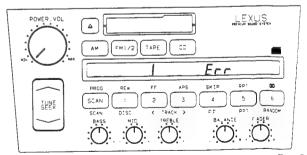


Fig. 30



5. GENERAL GUIDE

5.1 RADIO

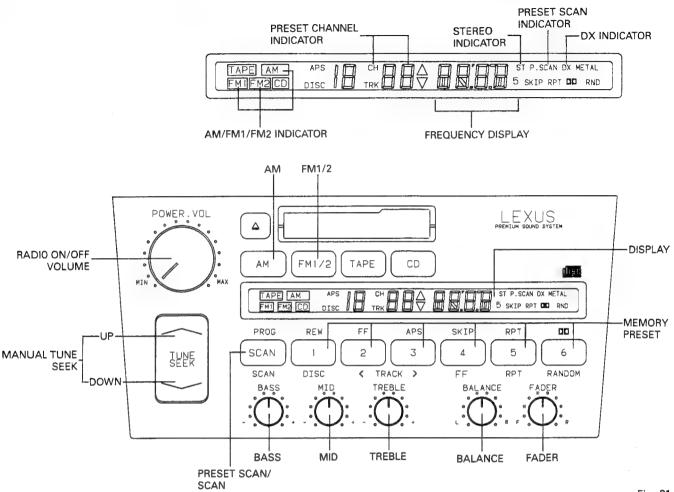


Fig. 31

• Manual/Seek Tuning:

When the \land (up) side of the TUNE button is pressed, the frequency is increased by 2 MHz in the FM band and by 10 kHz in the AM band, and when the v (down) side is pressed, the frequency is decreased in the same way. Holding the button depressed for more than 0.5 seconds starts seek tuning, which stops when a station broadcasting a sufficiently strong signal is received.

When only weak signals or no station is received, the frequency returns to the initial frequency, then the reception is changed to the DX mode.

Memory Preset:

- Select the required band among the FM1, FM2, and AM bands.
- (2) Tune to the broadcast station required to be stored in memory.
- (3) Press and hold one of the Memory Preset button for about 2 seconds.

- (4) A beep tone will be heard when the tuned station is stored in the memory corresponding to the Memory Preset button pressed.
- (5) Up to six stations can be memorized for each of the FM1, FM2 and AM bands.

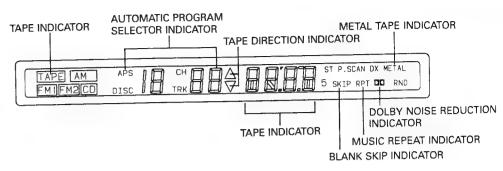
Preset Scan/Scan Tuning:

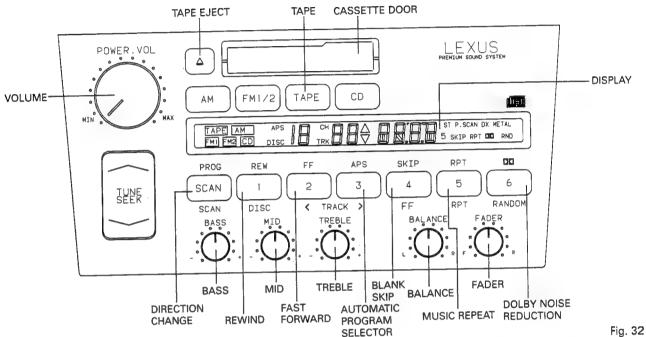
When the SCAN button is pressed, all the stations stored in the Memory Preset buttons will be received for 5 seconds in sequence.

When the SCAN button is held pressed for more than 2 seconds, the Scan Tuning mode is activated and station broadcasting strong signals will be received for 5 seconds in sequence. When the tuning returns to the frequency from which the Scan Tuning was started, the receiving mode is changed to the DX mode.

To release Preset Scan or Scan Tuning, press the SCAN button again.

5.2 TAPE





Rewind/Fast Forward:

Press the REW (or FF) button to rewind (fast-forward) the tape, and press it again to release the function.

• APS:

With the APS button, the beginning of any required tune up to 9 tunes before and after the current tune can be detected automatically. After pressing the APS button the number of times corresponding to the number of the tune to which you want to skip (for three times to select the 3rd tune), press the FF button to search in the forward direction or press the REW button to search in the reverse direction. The tape will stop at the beginning of the designated tune and play starts automatically.

(For example)

When the FF button is pressed after pressing the APS button three times, the tape is fast-forward by skipping two tunes in the forward direction, and play will start from the beginning of the 3rd tune.

• Blank Skip:

With the SKIP button pressed ON, when a blank (nonrecorded) section of more than 15 seconds is detected, the tape is fast-forwarded to the beginning of the next tune. When the SKIP button is pressed again, the Blank Skip function is released.

• Music Repeat:

With the RPT button pressed ON, when the current tune is finished, the tape will be rewound to the beginning of the tune and play will restart automatically. When the RPT button is pressed again, the Music Repeat function is released.

Dolby Noise Reduction*

Press this button when using a tape recorded with the Dolby (B type) Noise Reduction system. Press the button again to release it.

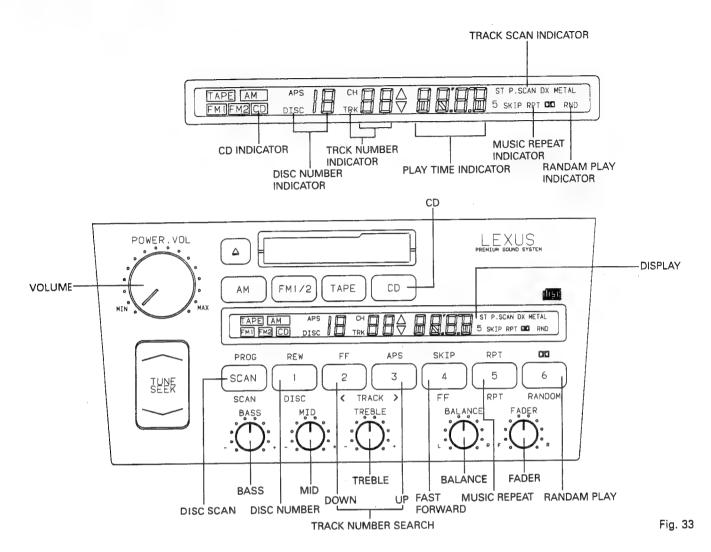
* Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

• Ejecting Tape:

The tape can be ejected at any time by pushing the TAPE EJECT button.

5.3 CD



Changing the Discs:

When the DISC button is pressed, the disc number is counted up, and the disc designated by the DISC button will be played. When the DISC button is held pressed for more than 0.5 seconds, the disc number is counted up continuously. If a tray with no disc in the magazine loaded in the CD changer is selected, the corresponding disc number will not be displayed.

Track Search:

When the TRACK < button is pressed, the track number is counted down and the designated track will be played. When the TRACK < button is held pressed for more than 0.5 seconds, the track number will be counted down continuously.

When the TRACK > button is pressed, the track number is counted up and the designated track will be played. When the TRACK > button is held pressed for more than 0.5 seconds, the track number will be counted up continuously.

• Fast Forward:

The playing position is fast-forwarded while the FF button is pressed. During fast-forwarding, playback sound can be heard.

• Music Repeat:

When the RPT button is pressed, the current track will be played repeatedly. Press the RPT button again to release the Music Repeat function.

Random Play:

When the RANDOM button is pressed, the track to be played next will be selected automatically by the built-in microcomputer.

Disc Scan:

When the SCAN button is pressed, the beginning of all the tracks on the discs loaded in the CD changer will be played for 10 seconds in sequence. When play returns to the disc from which Track Scan was started, Track Scan will be released. To release the Track Scan function during its operation, press the SCAN button again.

6. CIRCUIT DESCRIPTION

6.1 DATA COMMUNICATIONS

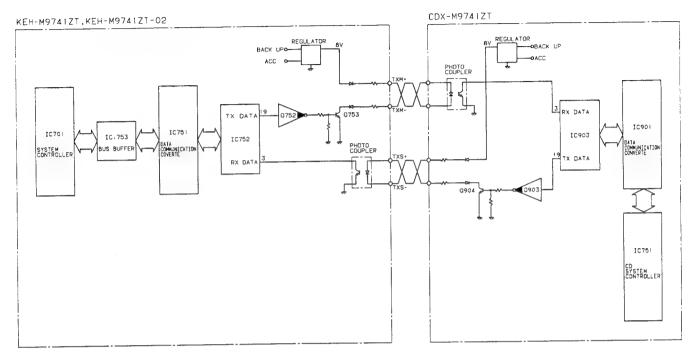


Fig. 34

Communication Interface for Operation Control

1) Communication specifications

Synchronization: Asynchronous

Baud rate: 4800 bps

Start bit length: 1 bit

Data bit length: 8 bit

Parity bit: Even

Signal level: ON +8 V, OFF 0 V

Communication method: Half-duplex

2) Transmission control system

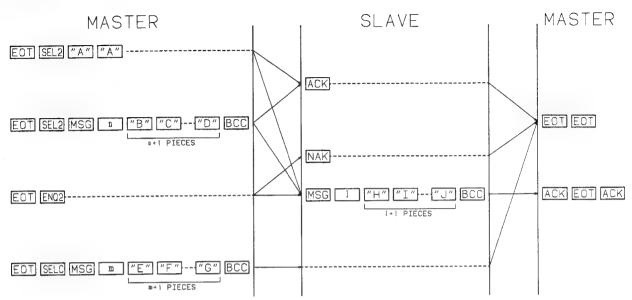
Polling, system selection by master station

3) Signal terminal specifications

	Definition	Signal direction
:	Master transmission power supply (+8 V)	Master → Slave
:	Master transmission output (open collector)	Master → Slave
:	Master receiving input (positive)	Master ← Slave
:	Master receiving input (negative)	Master ← Slave
	: : : : : : : : : : : : : : : : : : : :	 Master transmission power supply (+8 V) Master transmission output (open collector) Master receiving input (positive)

KEH-M9741ZT

Data Format



NOTE:

"A", "B",...."J":COMMAND, CONDITION, DATA OF INDICATION

BCC: ERROR CHECK

1,m,n:NUMBER OF DATA

THE OTHERS: COMMUNICATION CONTROL CODE

Fig. 35

• Communication Timing Chart

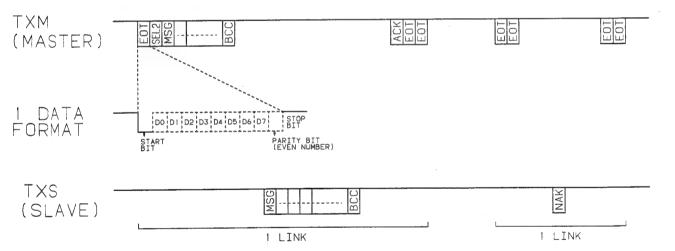
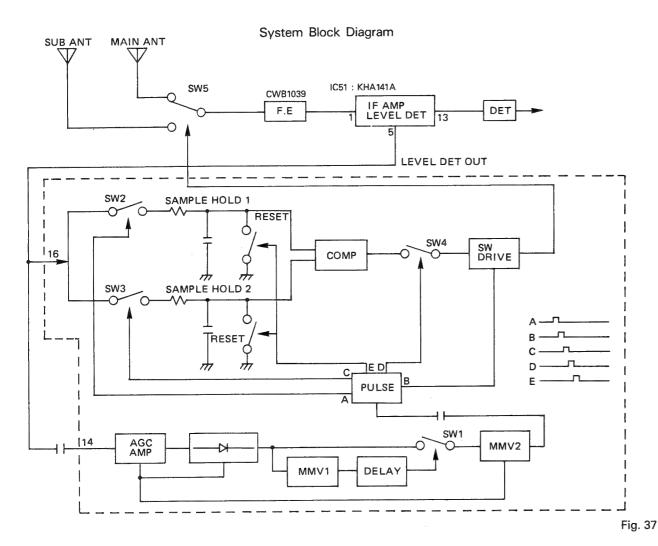


Fig. 36

6.2 FM DIVERSITY SYSTEM

The system incorporates two antennas and one tuner. Noise elements in the signal meter voltage are detected, and whenever noise is present the levels of the two antennas are compared. The antenna with the higher level is selected.



Noise due to multipath distortion, etc. appears in the LEVEL DET OUT signal from pin 5 of IF IC KHA141A. The noise passes through a capacitor and is supplied to the AGC amplifier where it is amplified. Then it is rectified. This signal is then supplied to MMV1. After being delayed by approximately $40-50~\mu \rm sec.$ in the next delay circuit, it closes SW1 for a few $\mu \rm sec.$ (determined by MMV1). If new noise is generated while SW1 is closed, this noise is supplied to MMV2. After wave shaping, it is supplied to the pulse generation circuit.

The pulse generation circuit generates in sequence pulses A - E shown in the figure.

A is supplied to SW2, and sample and hold is performed on the ANT level for the signal being received at that point. B is supplied to SW DRIVE and the antenna is switched. C is supplied to SW3, and sample and hold is performed on the antenna input level after ANT was switched. D is supplied to SW4, closing it. The sample-and-hold 1 and 2 comparison output is sent to SW DRIVE.

At this point, if the ANT input level from before the switch is higher, ANT is switched back to the original antenna. If the ANT input level after the switch is higher, ANT remains connected to the current antenna. As described above, whenever noise is supplied to MMV2, the input levels of the two antennas are compared and the antenna with the higher level input is chosen.

6.3 MOTOR ANTENNA CONTROL

Radio Status	ANT (+)	ANT (0)	ANT (1)	ANTENNA POSITION
OFF	L	L	L	With antenna shortened
During cassette or CD play	L	L	L	"
During AM broadcast reception	Н	Н	Н	Long
During FM broadcast reception (87.9 – 96 MHz)	Н	Н	L	Medium
During FM broadcast reception (96.1 – 107.9 MHz)	Н	L	L	Short
During AM seek or scanning	Н	Н	Н	Long
During FM seek or scanning (Starts from 87.9 – 96 MHz)	Н	Н	L	Medium
During FM seek or scanning (Starts from 96.1 – 107.9 MHz)	Н	L	L	Short

6.4 ELECTRONIC VOLUME

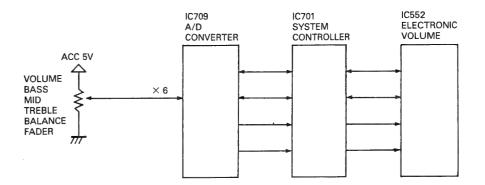
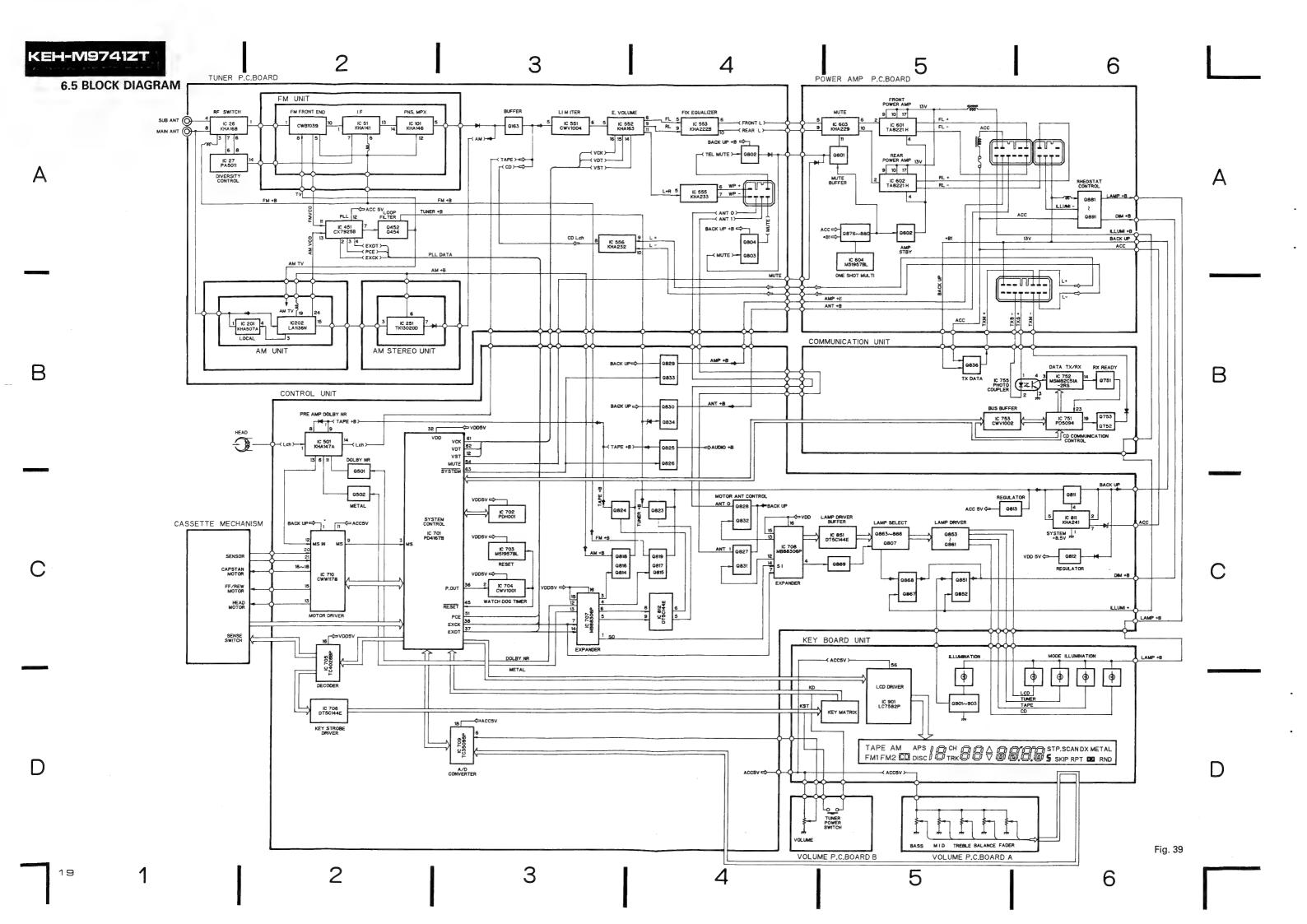


Fig. 38

In this unit, an electronic volume control circuit in IC552 is controlled by serial data. For operation of the electronic volume control circuit, the midpoint voltages of six variable resistors — VOLUME, BASS, MID, TREBLE, BALANCE and FADER — according to the rotation angles of the VRs are transmitted to IC709 in which analog signals are converted into digital signals. Then, the signal is converted into serial data in IC701, and applied to IC552 to be used for controlling the electronic volume control circuit in IC552.



6.6 DATA COMMUNICATION BLOCK DIAGRAM

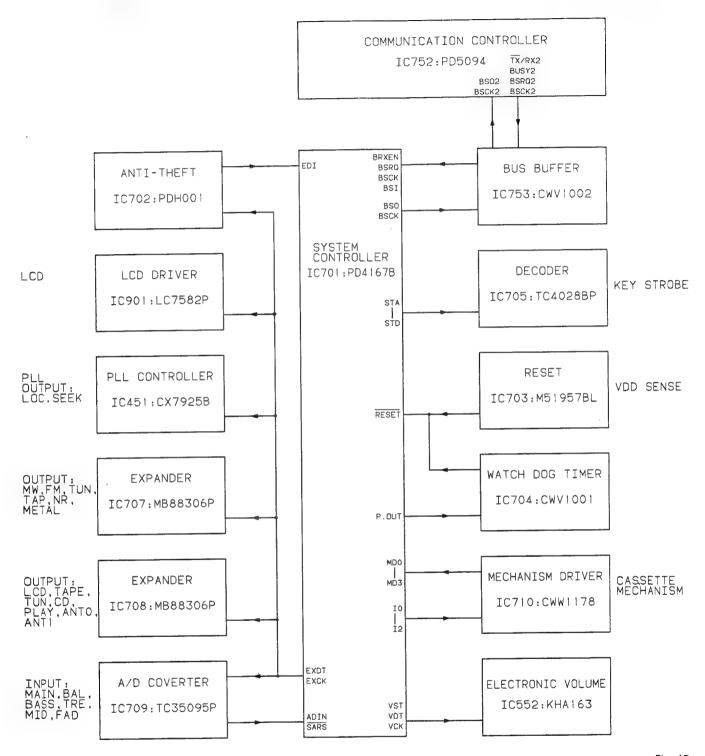
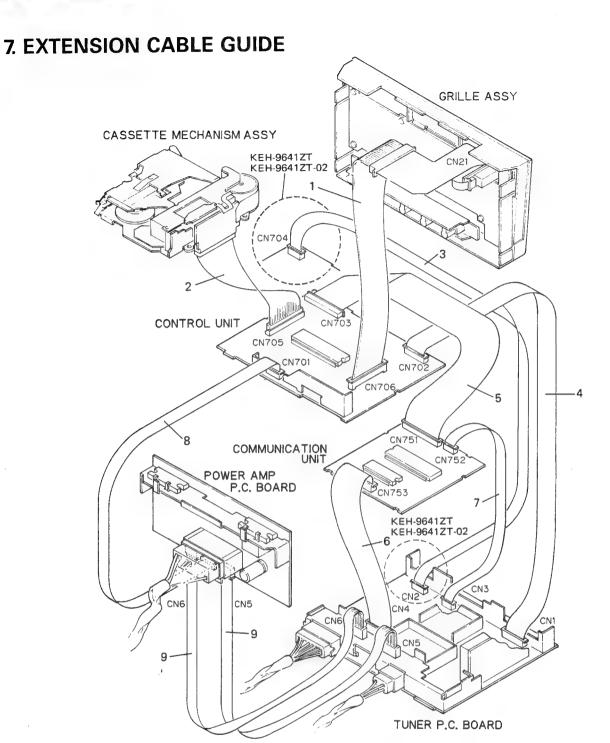


Fig. 40



No.	Part No.	Note	No.	Part No.	Note
1	GGF-126		6	GGF1017	KEH-M9741ZT, KEH-M9741ZT-02
2	GGF-070		7	GGF1016	KEH-M9741ZT. KEH-M9741ZT-02
3	GGF1018	KEH-9641ZT, KEH-9641ZT-02	8	GGF1015	
4	GGF1013		9	GGF-079	
5	GGF1014	KEH-M9741ZT, KEH-M9741ZT-02			

Fig. 41

8. ADJUSTMENT

8.1 TEST MODE

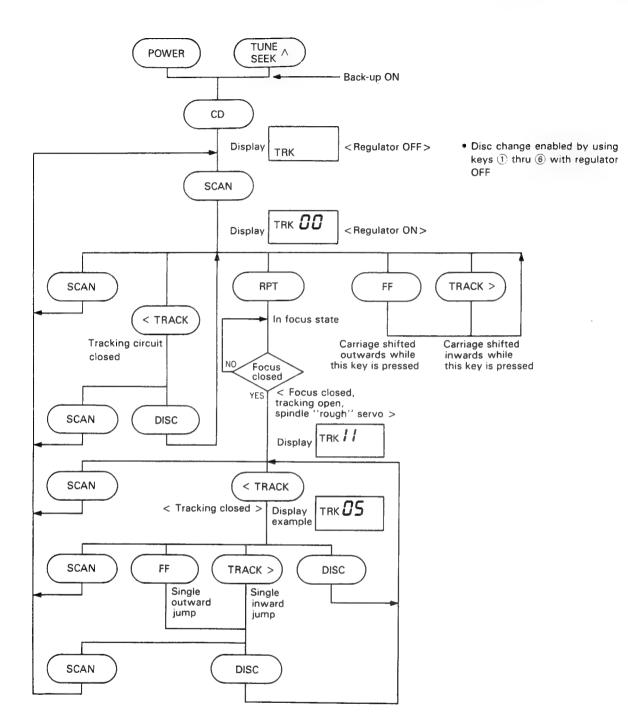
Test mode is mainly used in adjustment of CD multi-player CDX-M9741ZT

- Switching to test mode
 While pressing the POWER, TUNE keys together, switch
 the back-up ON.
- Canceling test mode Switch the CD multi-player back-up OFF.
- Key functions during test mode
 The CD multi-player is selected by the CD key.

a) CD multi-player

Key	Function
SCAN	DD converter ON/OFF
FF	FWD kick
TRACK >	REV kick
TRACK <	Tracking close
DISC	Tracking open
RPT	Focus close
RANDOM	Disc change

• Flow Chart





8.2 AUDIO/TUNER ADJUSTMENT

NOTICE:

Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.

Z: Output impedance of SSG.

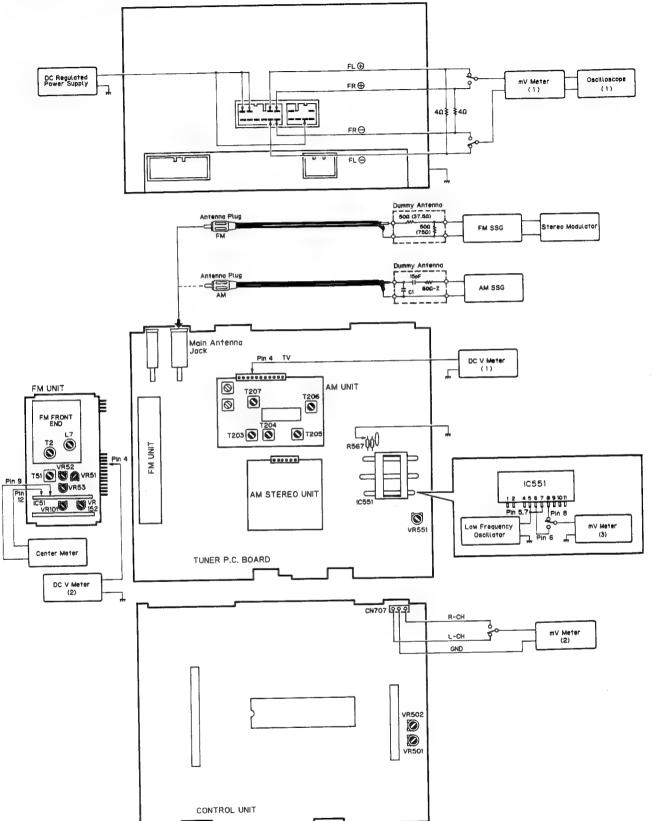


Fig. 42

DOLBY NR ADJUSTMENT

No.	Cassette Tape	Adjusting Point	Adjustment Method (Switch Position)
1	NCT-150 (400Hz, 200nwb/m)	VR501 (Lch) VR502 (Rch)	mV Meter(2):388mV(-6dBs) (DOLBY NR Switch:OFF)

LIMITER ADJUSTMENT

No.	Low Frequency Oscillator Adjusting Point		Adjustment Method	
	Frequency (Hz) Level (mV)		(Switch Position)	
1	2,000	500		R567 connect to ground. mV Meter(3):A dB
2	50	500	VR 5 5 1	mV Meter(3):A±0.5 dB

AM ADJUSTMENT

	No.	AM SSG (400Hz, 30%)	Displayed	Adjusting	Adjustment Method	
		Frequency (kHz)	Level (dBμV)	Frequency (kHz)	Point	(Switch Position)
Tun- ing Volt	1	530	2 5	530	T207	DC V Meter(1): 1.0 ± 0.3 V
VOIT	2	1.710	2 5	1, 710		Verify that DC V Meter is less than 6.0 \pm 0.5 V.
	3	600	2 5	600	T203, 204, 205, 206	mV Meter(1):Maximum
SEEK	1	1.000	35±8	1,000		Verify that SEEK stops. SEEK stops level:BdB
,	2	1,000	B + 22 ± 5	1,000		Verify that SEEK stops.

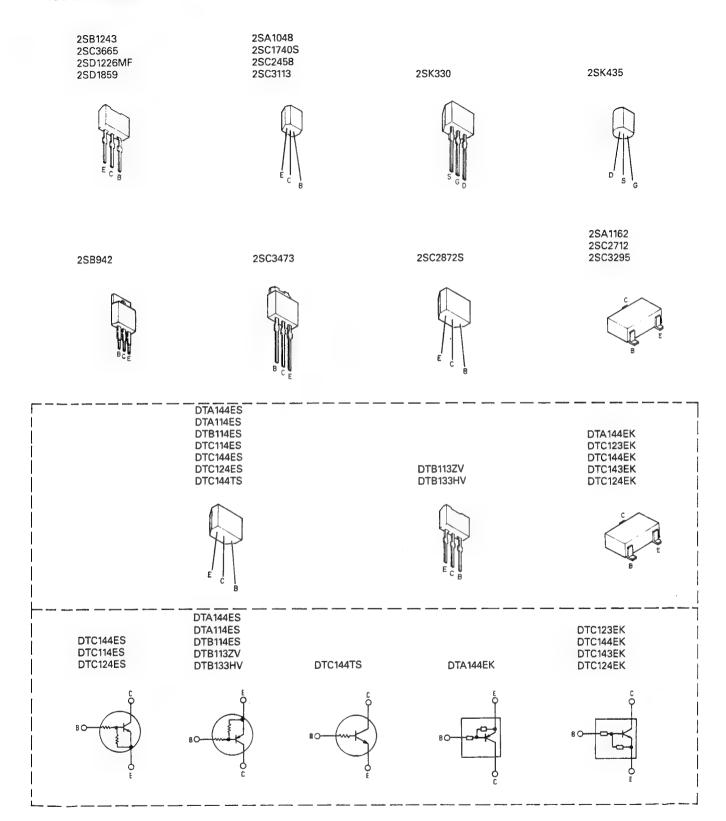
FM ADJUSTMENT

%1 Stereo MOD.: 1kHz, L+R=90%, Pilot=10%

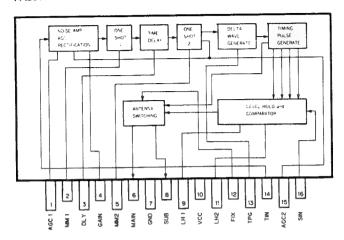
※2 Disconnect antenna plug

	No.	FM \$SG(400	Hz, 100%)	Displayed Frequency	Adjusting Point	Adjustment Method (Switch Position)	
		Frequency (MHz)	Level(dBμV)	(MHz)			
l F	1	98.1	60	98.1	T51	Center Meter:0	
Fro-	1			107.9	L7	DC V Meter (1):6.7±0.2V	
nt End	2			87.9		Verify that DC V Meter is more than 2.2 \pm 0.6 V.	
	3	98. 1	15	98.1	T2	mV Meter(1):Maximum	
ARC	1	98. 1	60	98.1	VR51	DC V Meter (2):2.5±0.1V	
MPX	1	98.1 ※1	60	98. 1	VR101	mV Meter(1):Separation Maximum	
	2	98.1 ※1	35	98.1	VR152	mV Meter(1):Separation 5dB	
	3	98.1 ※1	60	98.1		mV Meter(1):CdB	
	4	98.1 %1	-∞ ※2	98.1	VR53	mV Meter(1):C-20dB	
SEEK	1	98.1	22±6	98.1	VR 5 2	Make SEEK stop. SEEK stops level:DdB	
	1	98.1	D+28±10	98.1		Verify that SEEK stops.	

• ICs and Transistors



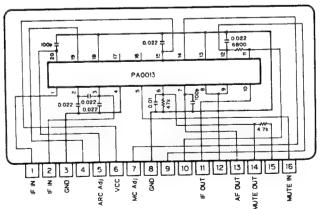
PA5011



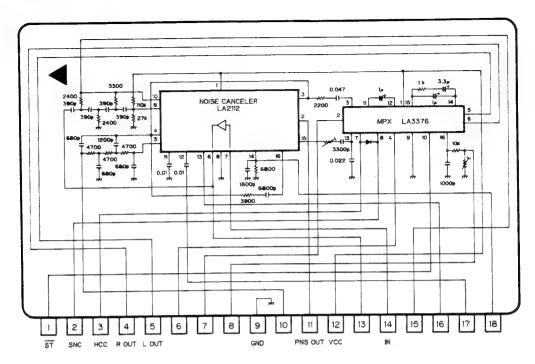
• Pin Functions (PA5011)

Pin No.	Pin Name	I/O	Functions and Operation
1	AGC1		Connected to gain control, noise amplifier AGC1 CR.
2	MM1		Connected to MMV1 output pulse width setting capacitor.
3	DLY		Connected to time delay setting capacitor.
4	GAIN		Connected to noise amplifier gain setting CR.
5	MM2		Connected to MMV2 output pulse width setting capacitor.
6	MAIN	0	"L" when the main antenna is selected.
7	GND		
В	SUB	0	"L" when the sub antenna is selected. Output phase is the opposite of that of the main antenna. Open corrector output.
9	LH1		Connected to level hold 1 capacitor.
10	VCC		
11	LH2		Connected to level hold 2 capacitor.
12	FiX	1	Auto mode when open. Fixed at main antenna when connected to GND. Fixed at sub antenna when connected to VCC.
13	TPG		Connected to timing pulse generation capacitor.
14	TIN	1	Noise amplifier input terminal. The tuner signal meter output signal passes through a capacitor and is input.
15	AGC2		Connected to noise amplifier AGC2 CR.
16	SIN	1	Level hold circuit input terminal. Tuner signal meter output signal is input.

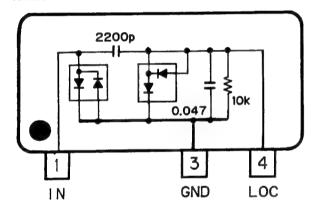
KHA141A



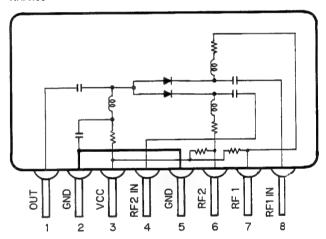
KHA146



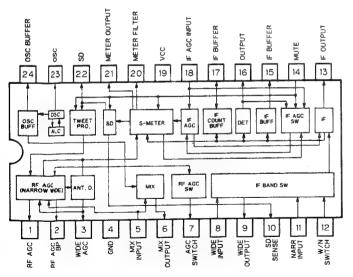
KHA507



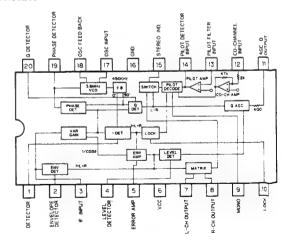


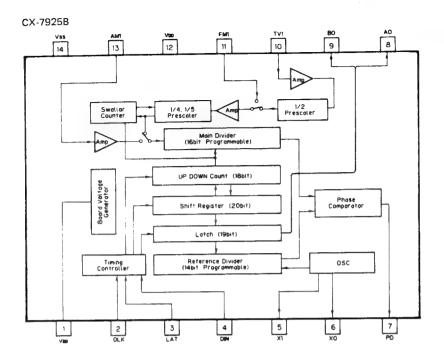


LA1136N

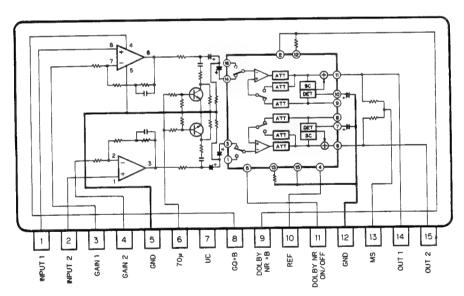


TK13020D

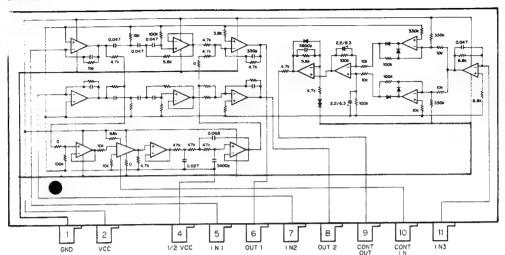




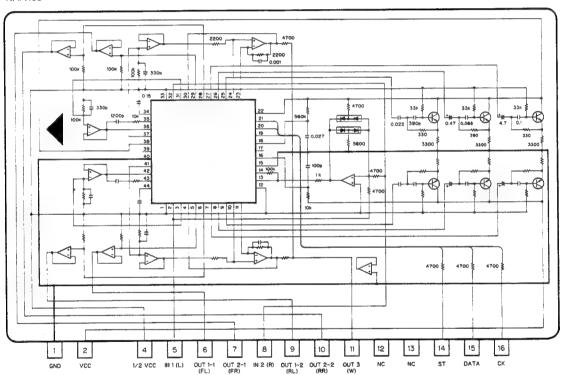
KHA147

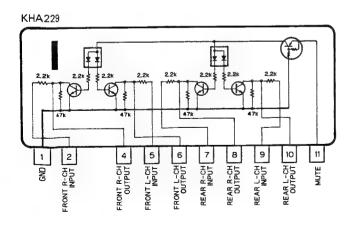


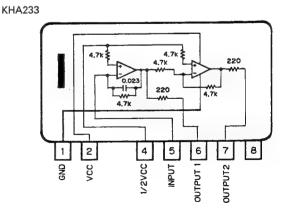
CWV1004



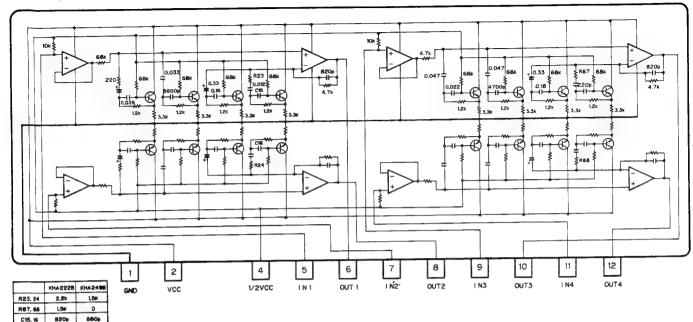
KHA163





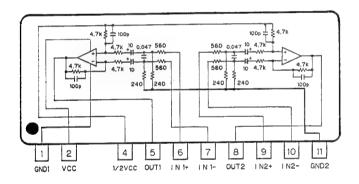


KHA222B, KHA249B

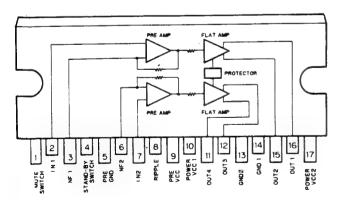


*PD4167B

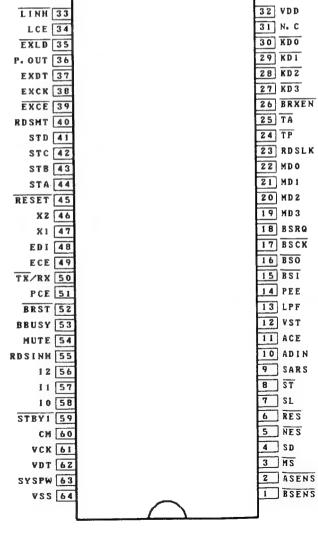
KHA232A



TA8221H



IC's marked by * are MOS type. Be careful in handling them because they are very liable to be damaged by electrostatic induction.





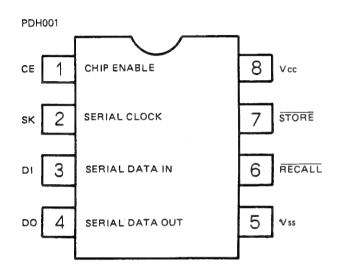
• Pin Function (PD4167B)

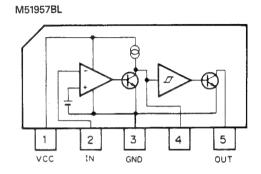
	ranction (i			
Pin No.	Pin Name	1/0	Output Format	Function and Operation
1	BSENS	Inpuț		Back up power sense input pin
2	ASENS	Input		ACC power sense input pin
3	MS	Input		Tape MS signal input pin
4	SD	Input		SD input pin
5	NES	Input		Reel pulse input pin for forward side of the tape
6	RES	Input		Reel pulse input pin for reverse side of the tape
7	SL	Input		Station level analog voltage input
8	ਬਾ	Input		Stereo input pin
9	SARS	Input		Status input pin for A/D converter([C709)
10	ADIN	Input		Data input pin for A/D converter(1C709)
1 1	ACE	Output	С	Chip enable output pin for A/D converter (1C709)
12	VST	Output	С	Strobe pulse output pin for electronic volume (1C552)
13	LPF	Output	С	Not used
14	PEE	Output	С	Beep tone output pin f=4kHz 100mS
15	BST	Input		Bus communication serial data input pin
16	вѕо	Output	С	Bus communication serial data output pin
17	BSCK	Input/ Output	1	Bus communication serial clock input/output pin f=65kHz
18	BSRQ	laput		Bus communication survice request input pin
I .	мрз	Input		Mechanism switch sense input pins
22	MDO			
23	RDSLK	Input		Not used
24	TP	Input		Not used
25	TA	Input		Not used
26	BRXEN	Input		Bus communication reception enable input pin
	KD3	Input		Key data input pins
30	ססא			
31	N. C			
		•		

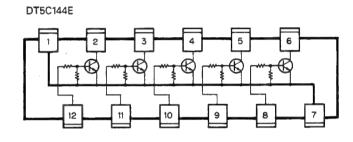
Pin No.	Pin Name	1/0	Output Format	Function and Operation
32	VDD			Device power supply terminal
33	LINH	Output	С	Inhibit output pin for LCD driver(IC901)
34	LCE	Output	С	Chip enable output pin for LCD driver(IC901)
35	EXLD	Output	С	Data load output pin for expander(10707, 708)
36	P. OUT	Output	С	Pulse output pin for watch dog timer(IC704)
37	EXDT	Output	С	Data output pin for external [C
38	EXCK	Output	С	Clock output pin for external IC
39	EXCE	Output	С	Chip enable pin for expander (IC707, 708)
40	RDSMT	Output	С	Not used
41 1 44	1	Output	O	Mechanism switch, strobe output pins
45	RESET	Input		Reset input pin
46 47				Crystal oscillator connection pins
48	EDI	Input		Serial data output pin for EEPROM(IC702)
49	ECE	Output	С	Chip enable pin for EEPROM(IC702)
50	TX/RX	Output	С	Bus communication TX(Transmission)/RX(Reception) control output pin
51	PCE	Output	С	PLL IC(IC451) chip enable pin
52	BRST	Output	С	Bus communication reset output pin
53	BBUSY	Output	С	Bus communication busy output pin
54	MUTE	Output	С	System mute output pin
5.5	RDSINH	Output	С	Not used
56 57 58	11	Output	C	Data output pins for mechanism driver(IC710)
59	STBYI	Output	С	Standby output pin for mechanism driver(IC710)
60	CM	Output	C	Capstan motor ON/OFF control output pin
61	VCK	Output	C	Clock output pin for electronic volume(IC522)
62	VDT	Output	C	Data output pin for electronic volume(IC522)
63	SYSPW	Output	C	Power amplifier power ON/OFF control output pin

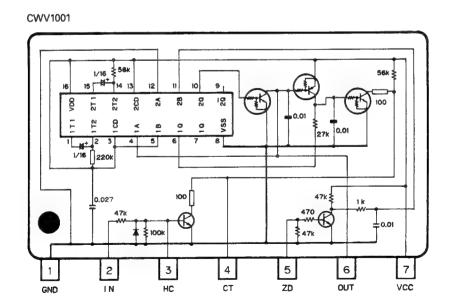
Pir No.	Pin Name	1/0	Output Format	Function and Operation
64	VSS			GND terminal

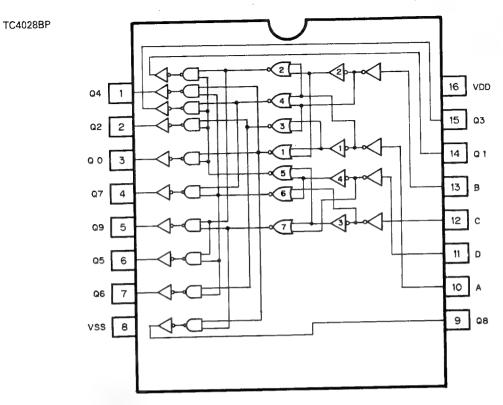
Output format	Meaning
N	N channel open drain
С	C-MOS







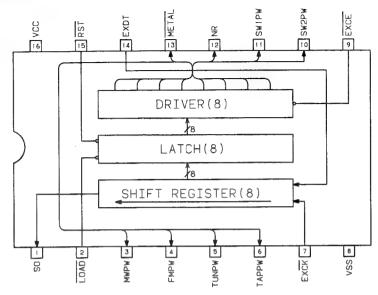




• Pin Function (TC4028BP)

PII	Function	10402	.001 /	
Pin No.	Pin Name	1/0	Output Format	Function and Operation
1	KSTI			
2	кѕтз			
3	кѕто			
4	кѕт2	Output	C	Key matrix strobe output pins
5	KST4			
6	кѕт5			
7	KST6			
8	vss			GND terminal
9	MSTO			
14	MST1	Output	С	Mechanism switch, strobe output pins
15	MST2			
10	A			
1 1	D	Input		Data input pins
12	С	Input		
13	В			
16	VDD			Device power supply terminal

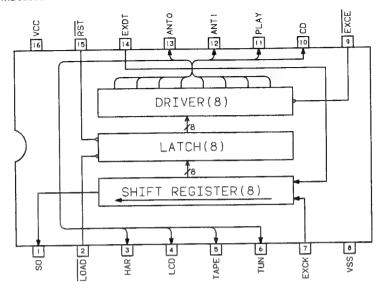
IC707: MB88306P



• Pin Function (IC707 : MB88306P)

Pin No.	Pin Name	1/0	Output Format	Function and Operation
1	so	Output	С	Serial data output pin
2	LOAD	Input		Data load input pin
3	MWPW	Output	С	MW+B ON/OFF select output pin
4	FMPW	Output	С	FM+B ON/OFF select output pin
5	TUNPW	Output	C	Tuner+B ON/OFF select output pin
6	TAPPW	Output	C	Tape+B ON/OFF select output pin
7	EXCK	Input		Clock input pin
8	vss			GND terminal
9	EXCE	Input		Chip enable input pin
10	SW2PW	Output	С	SW2+B ON/OFF select output pin
1 1	SW1PW	Output	С	SW1+B ON/OFF select output pin
12	NR	Output	С	Dolby NR ON/OFF select output pin
13	METAL	Output	С	Tape METAL ON/OFF select output pin
14	EXDT	Input	С	Serial data output pin
15	RST	Input		Reset input pin
16	VDD			Device power supply terminal

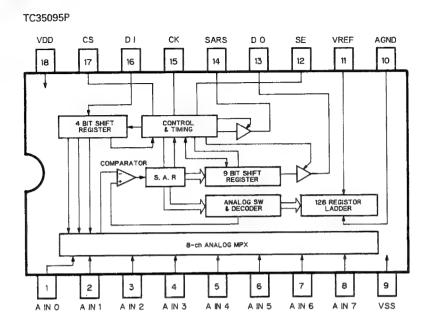




• Pin Function (IC708 : MB88306P)

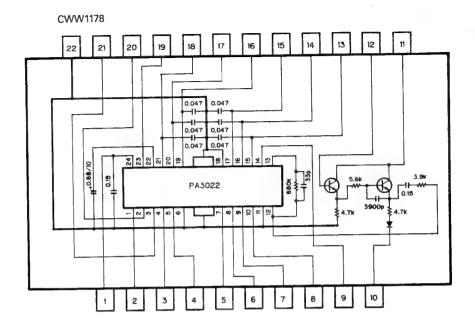
	Pin	1/0	Output	Function and Operation
Pin No.	Name	1/0	Format	, and then and operation
1	so	Output	С	Serial data output pin
2	LOAD	Input	-	Data load input pin
3	HAR	Output	С	Not used
4	LCD	Output	С	Lamp of LCD ON/OFF control output pin
5	TAPE	Output	C	Lamp of TAPE ON/OFF control output pin
6	TUN	Output	С	Lamp of TUNER ON/OFF control output pin
7	EXCK	input		Clock input pin
8	VSS			GND terminal
9	EXCE	Input		Chip enable input pin
10	CD	Output	С	Lamp of CD ON/OFF control output pin
1 1	PLAY	Output	С	Tape MS filter select output pin
12	ANT1	Output	С	ANT1 control output pin
13	ANTO	Output	С	ANTO control output pin
14	EXDT	Input	С	Serial data output pin
15	RST	Input		Reset input pin
16	VDD			Device power supply terminal

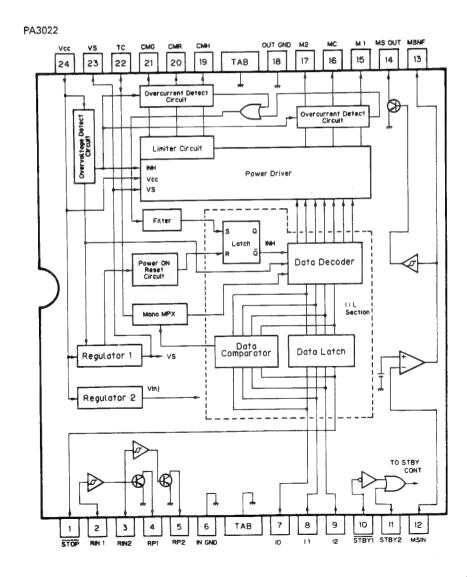




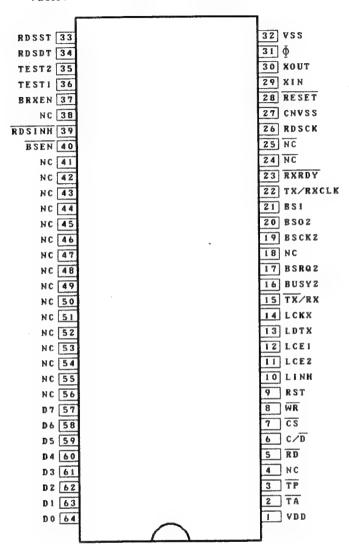
• Pin Function (TC35095P)

Pin No.	Pin Name	1/0	Output Format	Function and Operation
1	N. C			Not used
2	N. C			Not used
3	BASS	Input		BASS level input terminal
4	TRE	Input		TREBLE level input terminal
5	FAD	lnput		FADER level input terminal
6	MAIN	Input		VOLUME level input terminal
7	BAL	Input		BALANCE level input terminal
8	MID	Input		MIDDLE level input terminal
9	vss			GND terminal
10	AG			Analog GND terminal
1 1	VREF	Input		Reference voltage input pin
12	SE	Input		Not used
13	DO	Output	С	Serial data output pin
14	SARS	Output	С	Status output pin
15	EXCK	Input		Serial clock input pin
16	EXDT	Input		Data input pin
17	ACE	Input		Chip enable input pin
18	VDD			Device power supply terminal





*PD5094

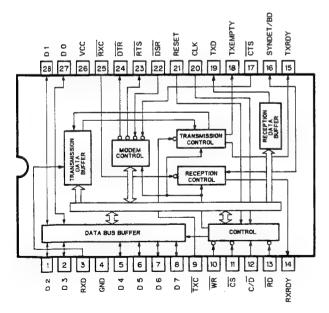


• Pin Function (PD5094)

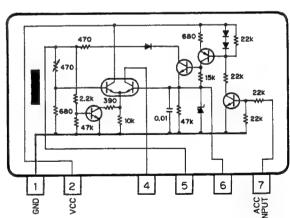
Pin No.	Pin Name	1/0	Output Format	Function and Operation
1	VDD		_	Device power supply terminal
2	TA	Output	C	Not used
3	TP	Output	С	Not used
4	NC			
5	RD	Output	С	Read signal output pin for IC752
6	C/D	Output	С	Control/Data switching signal output pin for 1C752
7	CS	Output	С	Chip select signal output pin for IC752
8	WR	Output	С	Write signal output pin for 10752
9	RST	Output	С	Reset signal output pin for 10752
10	LINH	Output	С	Not used
1 1	LCE2	Output	С	Not used
12	LCE1	Output	С	Not used
13	LDTX	Output	С	Not used
14	LCKX	Output	С	Not used
15	TX/RX2	Output	С	Bus communication TX(Transmission)/RX(Recept-ion) control output pin
16	BUSY2	Output	С	Bus communication busy output pin
17	BSRQ2	Output	С	Bus communication service request output pin
18	NC			
19	BSCK2	Input/ Output	С	Bus communication serial clock input/output pin f=19.2kHz
20	BSO2	Output	С	Bus communication serial data output pin
21	BSI	Input		Bus communication serial data input pin
22	TX/RX CLK	Output	G	Communication sampling clock output pin for 1C753 f=76,8kHz
23	RXRDY	Input		Reception request input pin
24	NC			
25	NC			
26	RDSCK	Input		Not used
27	CNVSS	Input		GND

Pin No.	Pin Name	1/0	Output Format	Function and Operation
28	RESET	lnput		Reset input pin
29 30	XIN XUUT	Input Output	С	Crystal oscillator connection pins
31	Φ	Output	С	Clock output pin for IC752 f=1, 228, 800Hz
32	VSS			GND
33	RDSST	Input		Not used
34	RDSDT	Input		Not used
35 36	TEST2 TEST1	lnput		Not used
37	BRXEN	Input		Bus communication reception enable input pin
38	NC			
39	RDSTNH	Input		Not used
40	BSEN	Input		Back up power sense input pin
41 1 56	NC			
57 64	D7 D0	Input/ Output		Data input/output pins for IC752

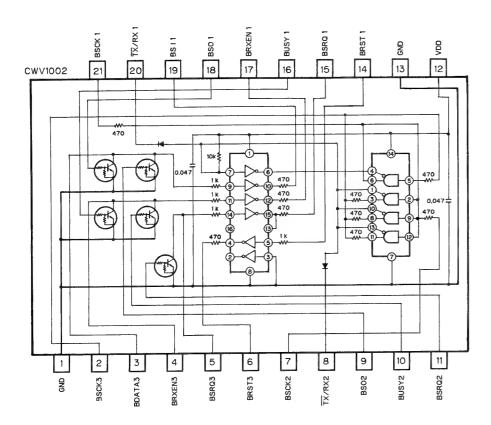
MSM82C51A-2RS-H



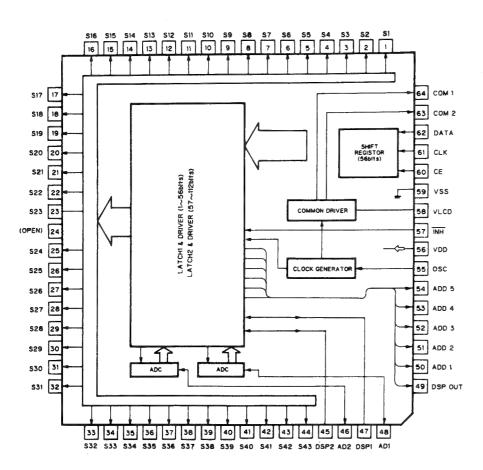
KHA241



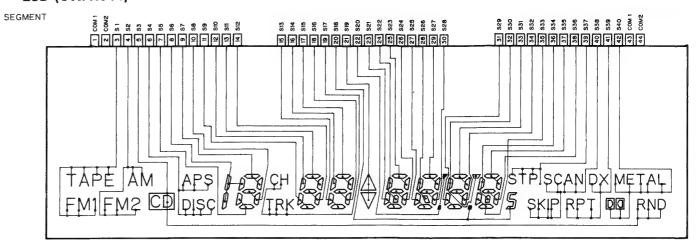
CWV1002



LC7582P



• LCD (CWA1044)



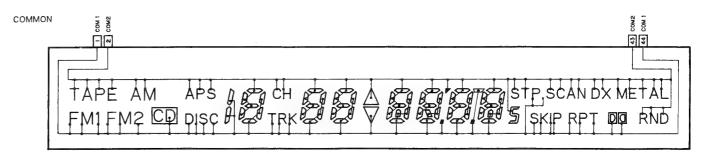
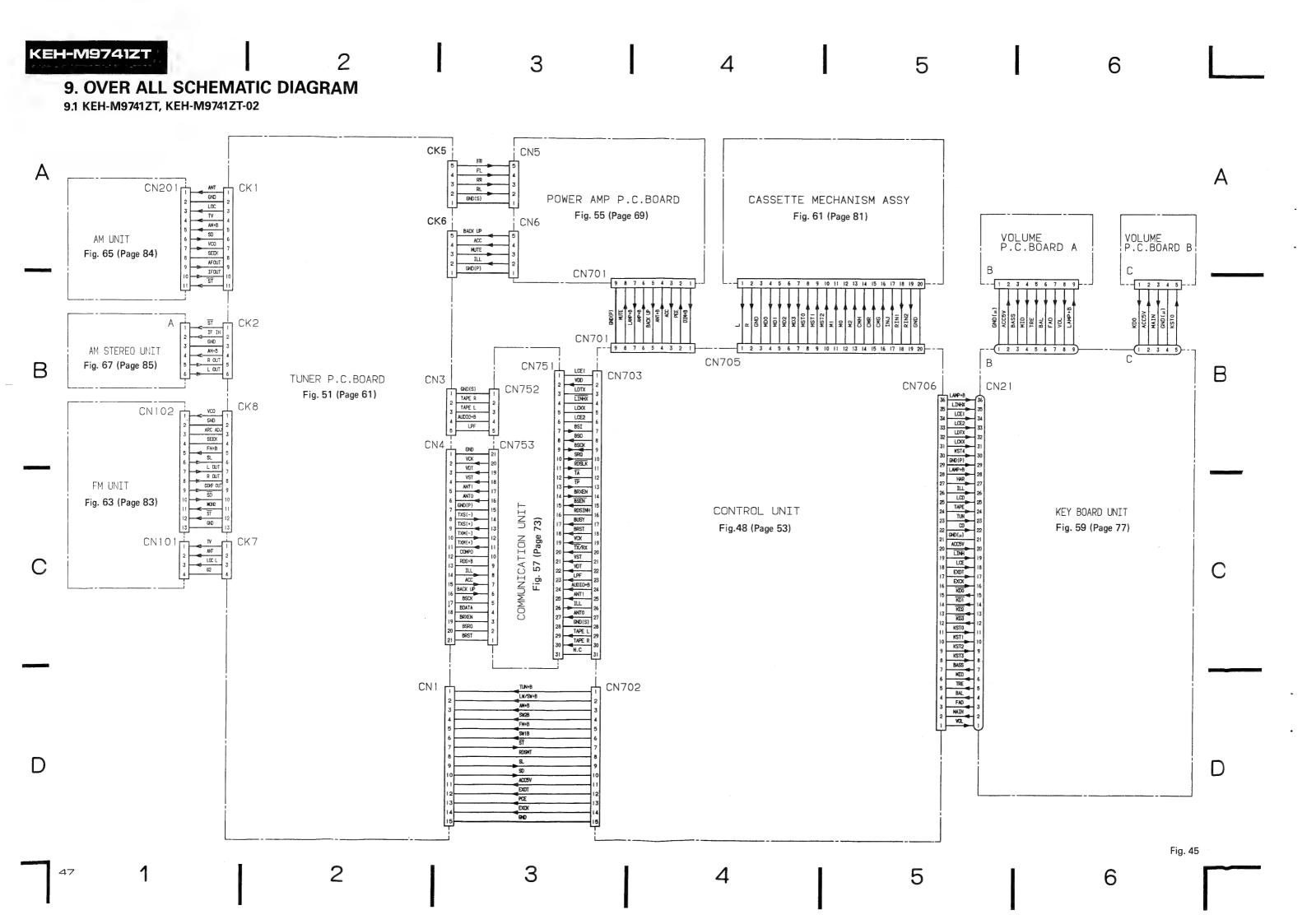
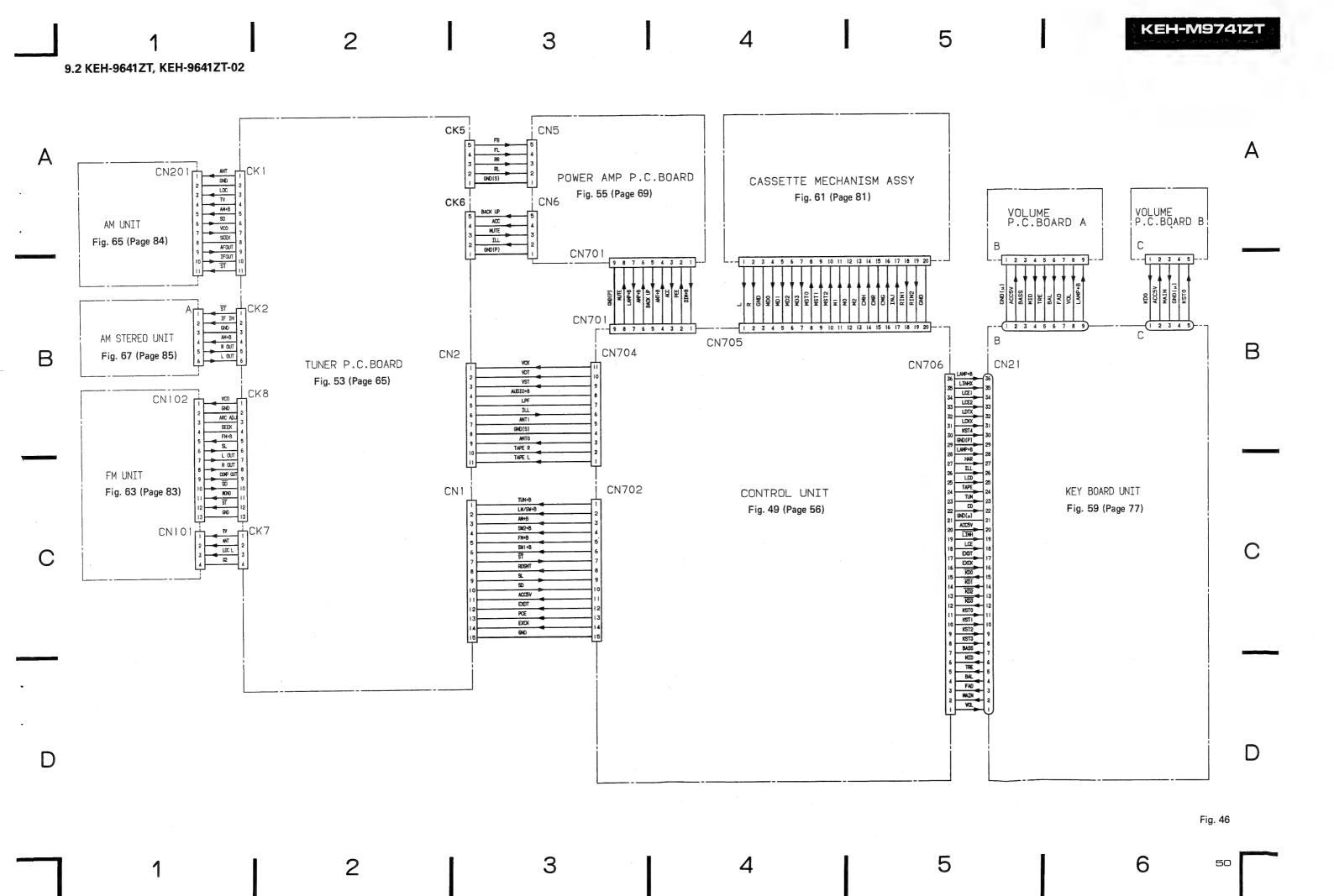


Fig. 43

• FM FRONT END (CWB1039)

NOTE | Decinal points for resistor | Section | Decinal points | Decinal po





10. SCHEMATIC DIAGRAM AND P.C. BOARD PATTERNS

10.1 CONTROL UNIT (KEH-M9741ZT, KEH-M9741ZT-02)

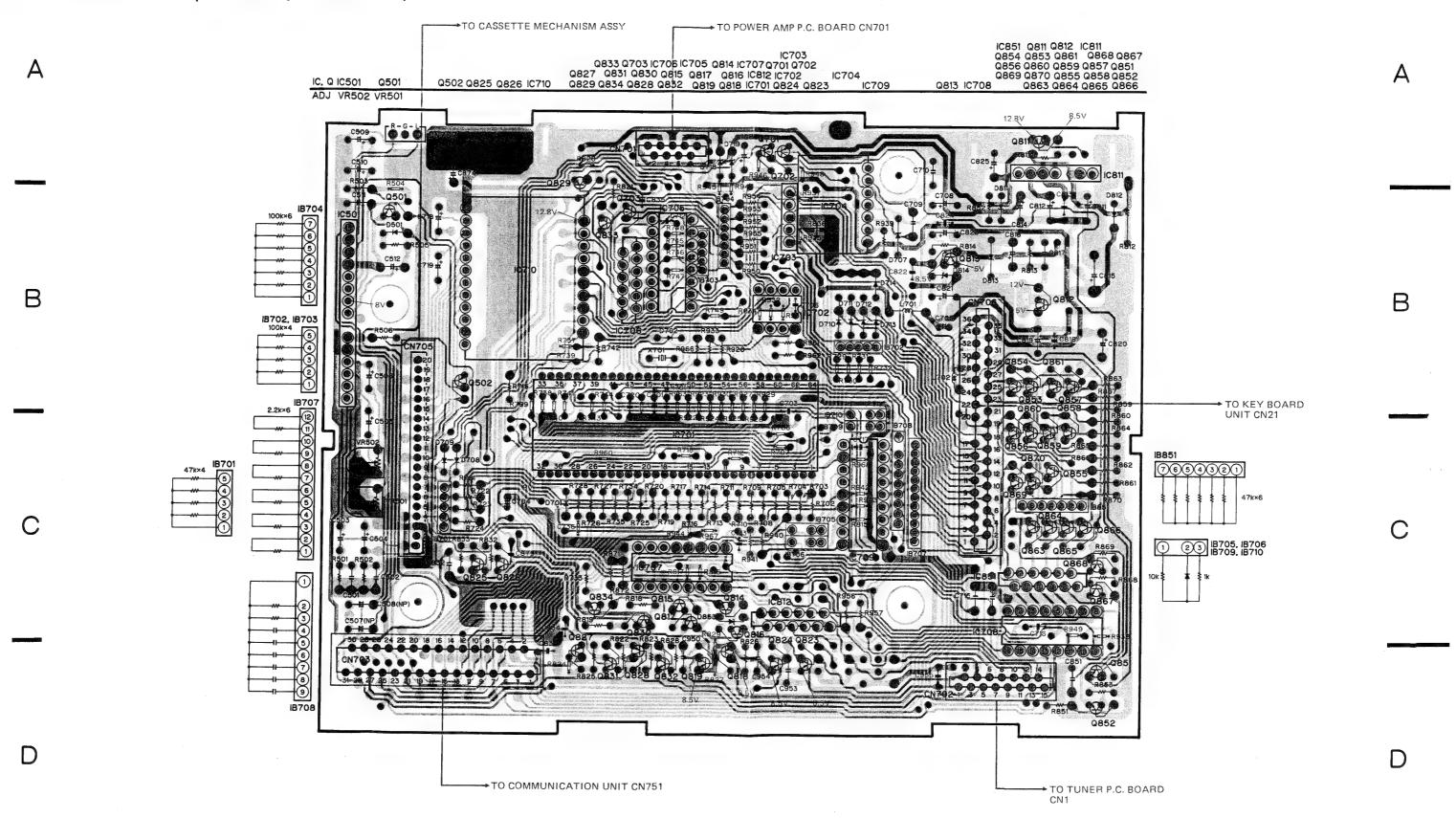
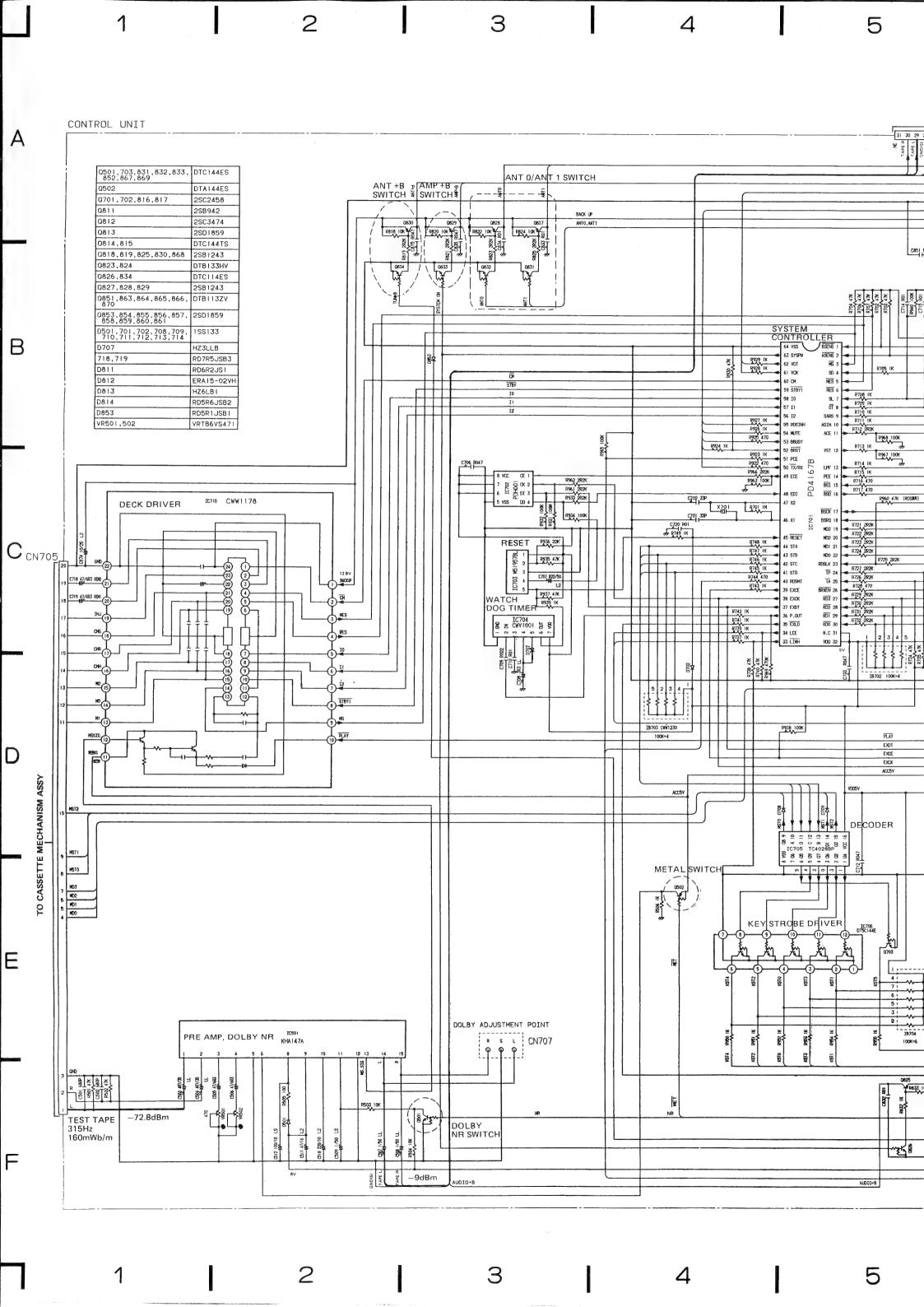
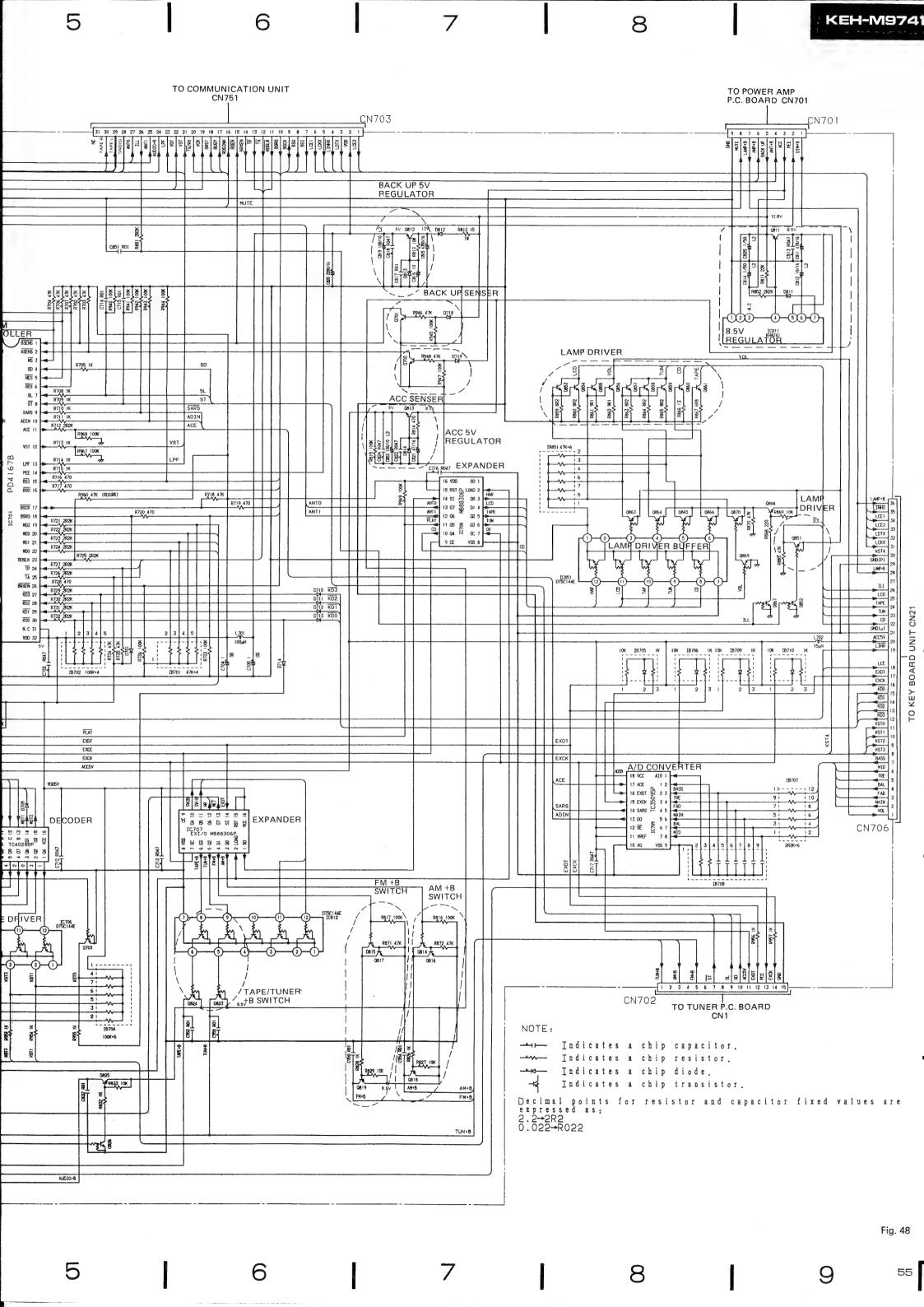
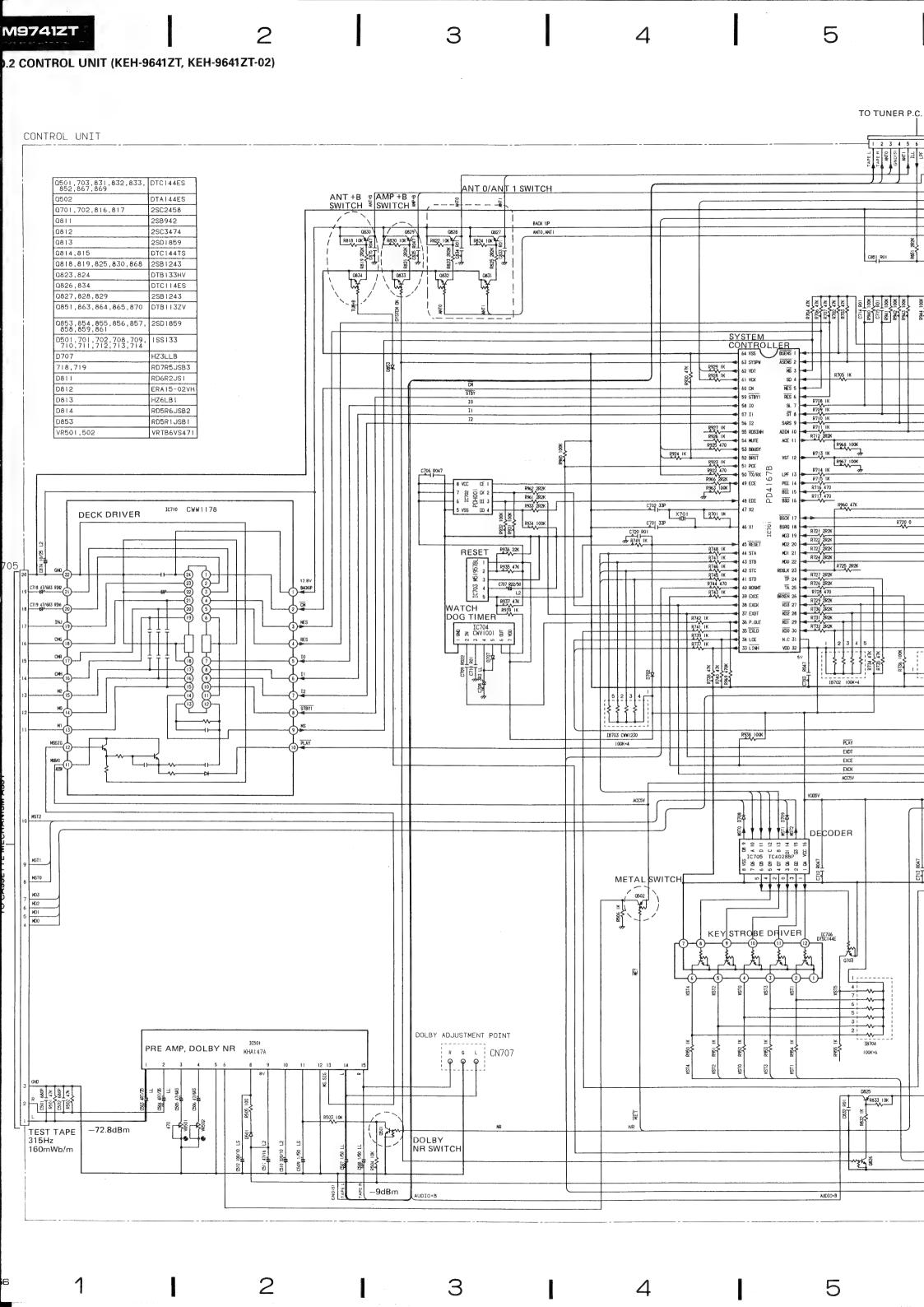
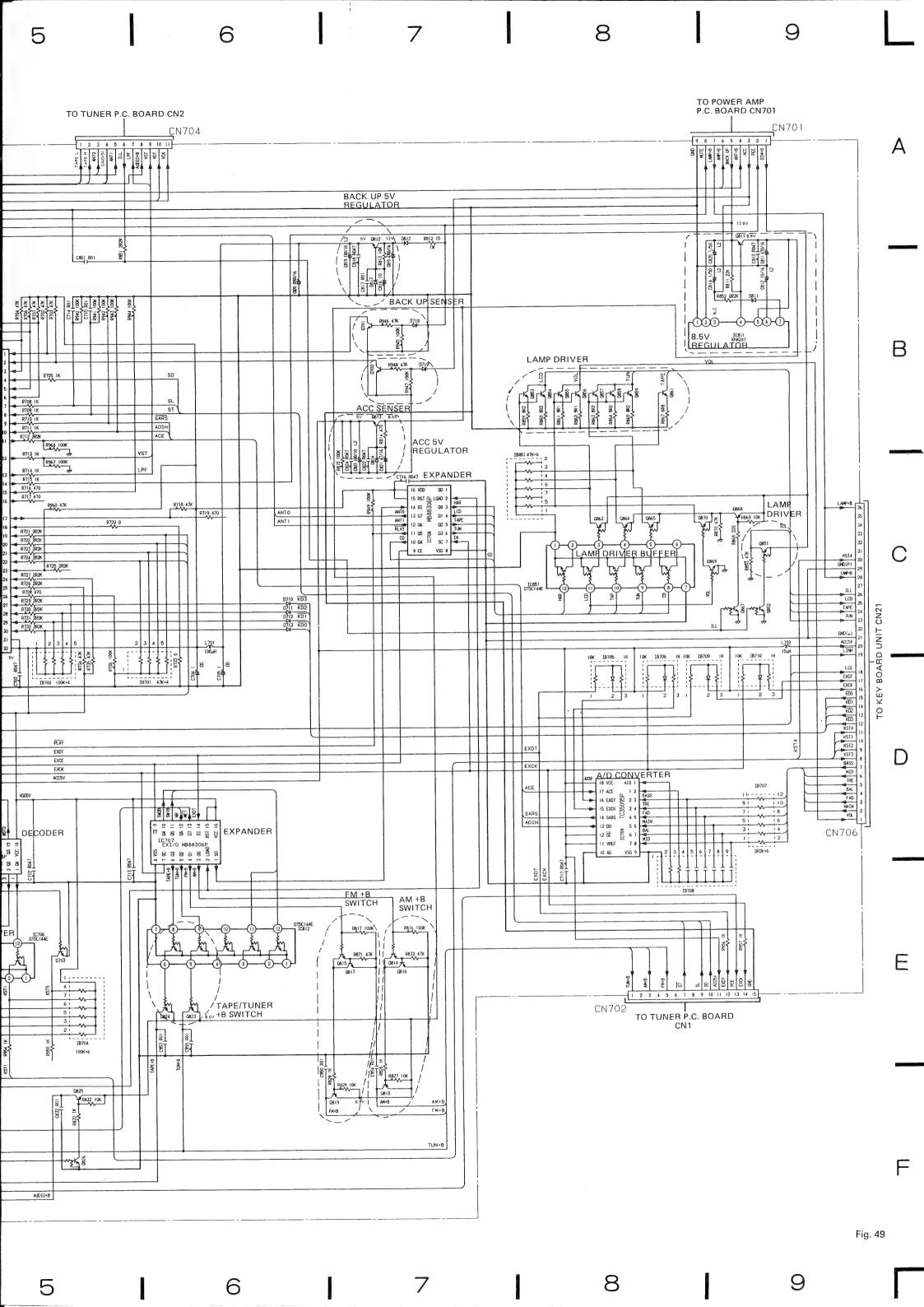


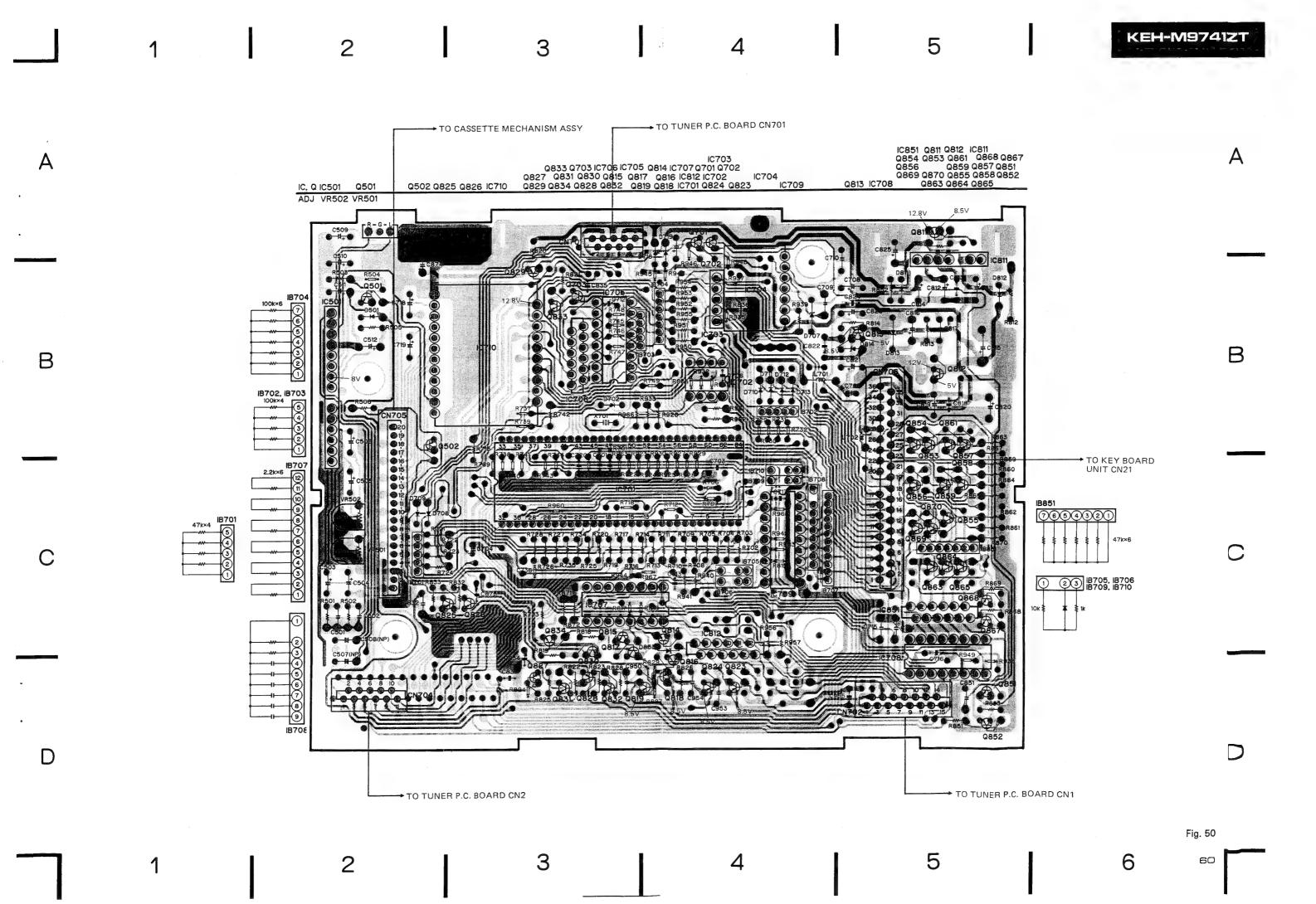
Fig. 47

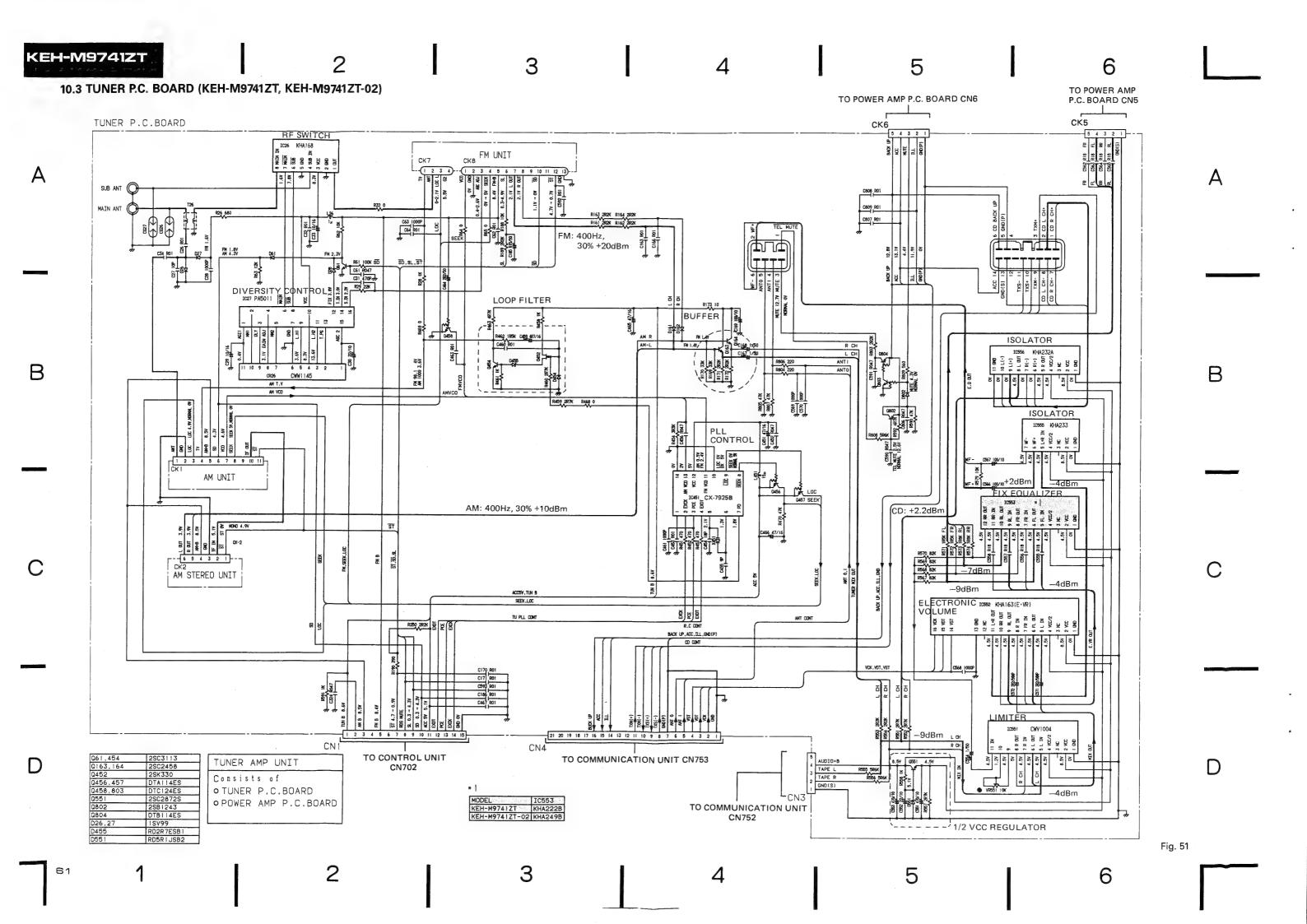


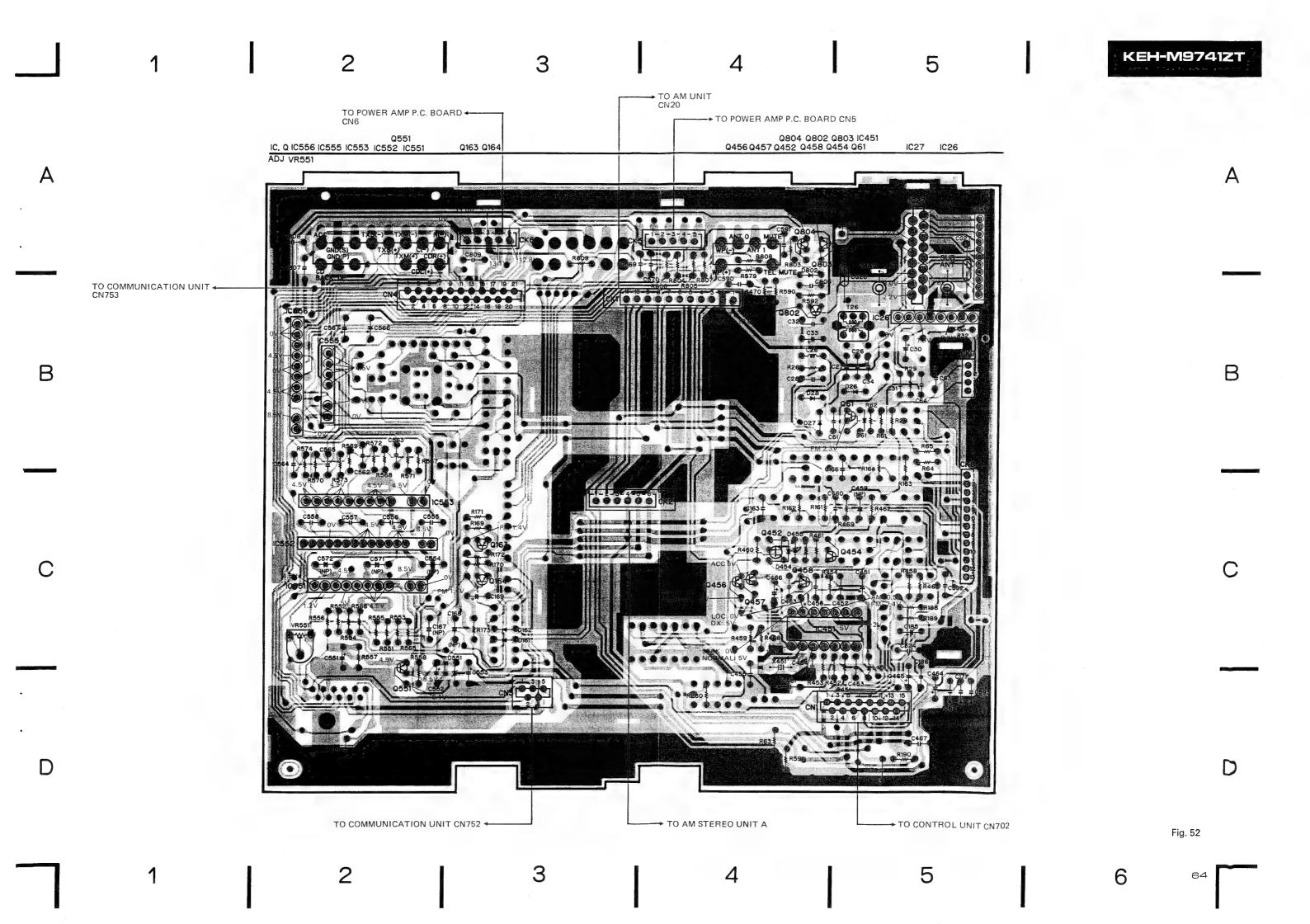


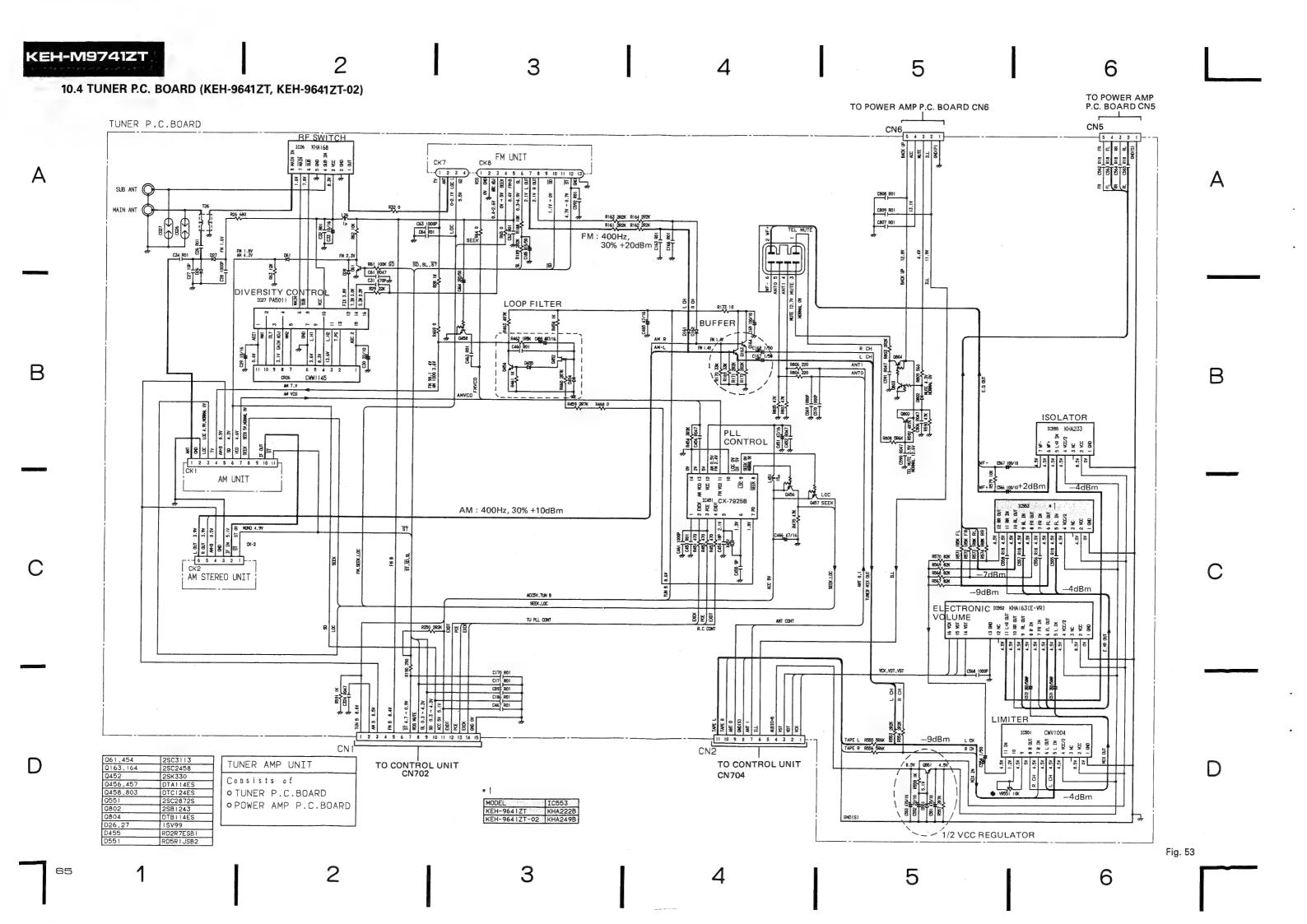


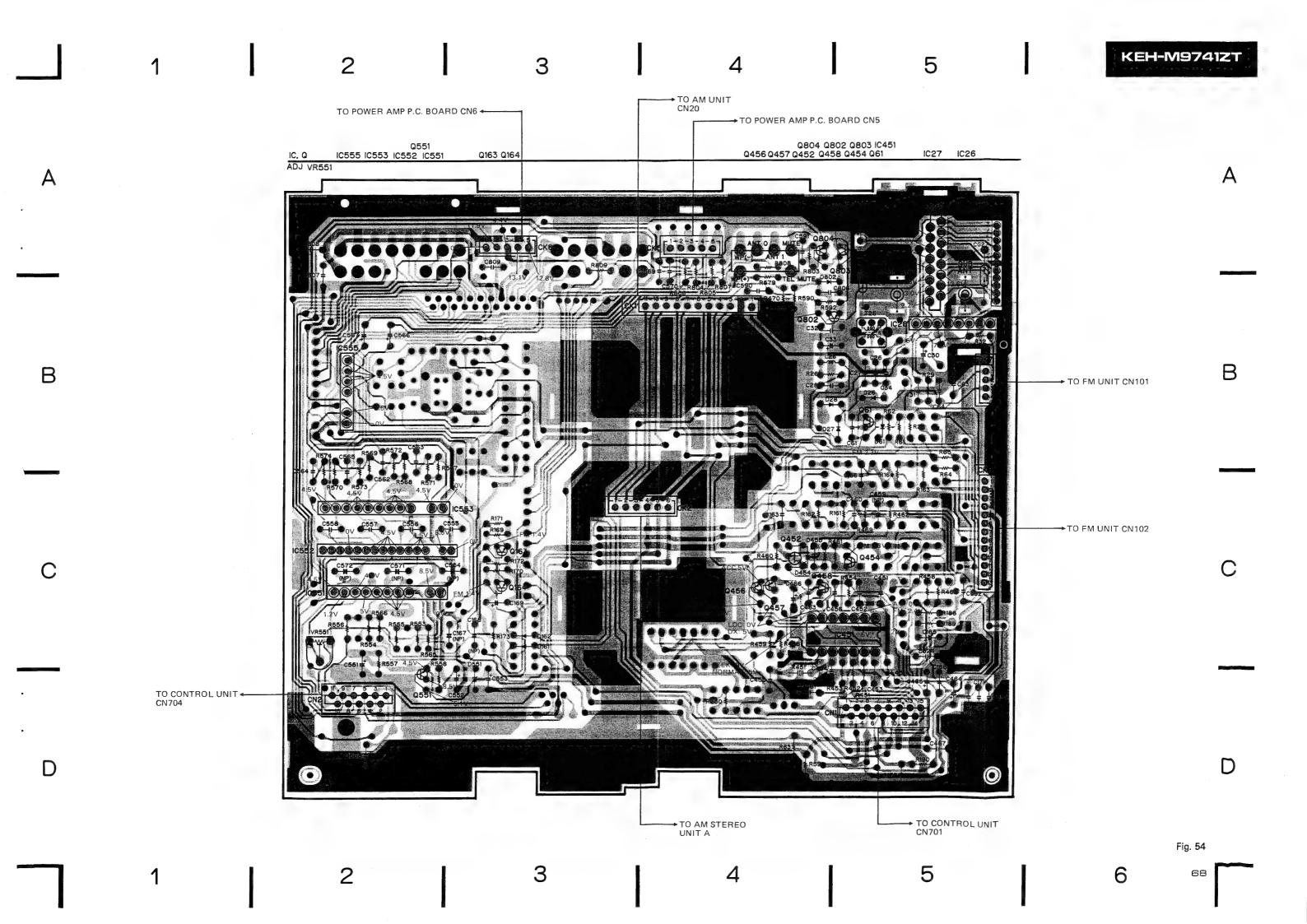


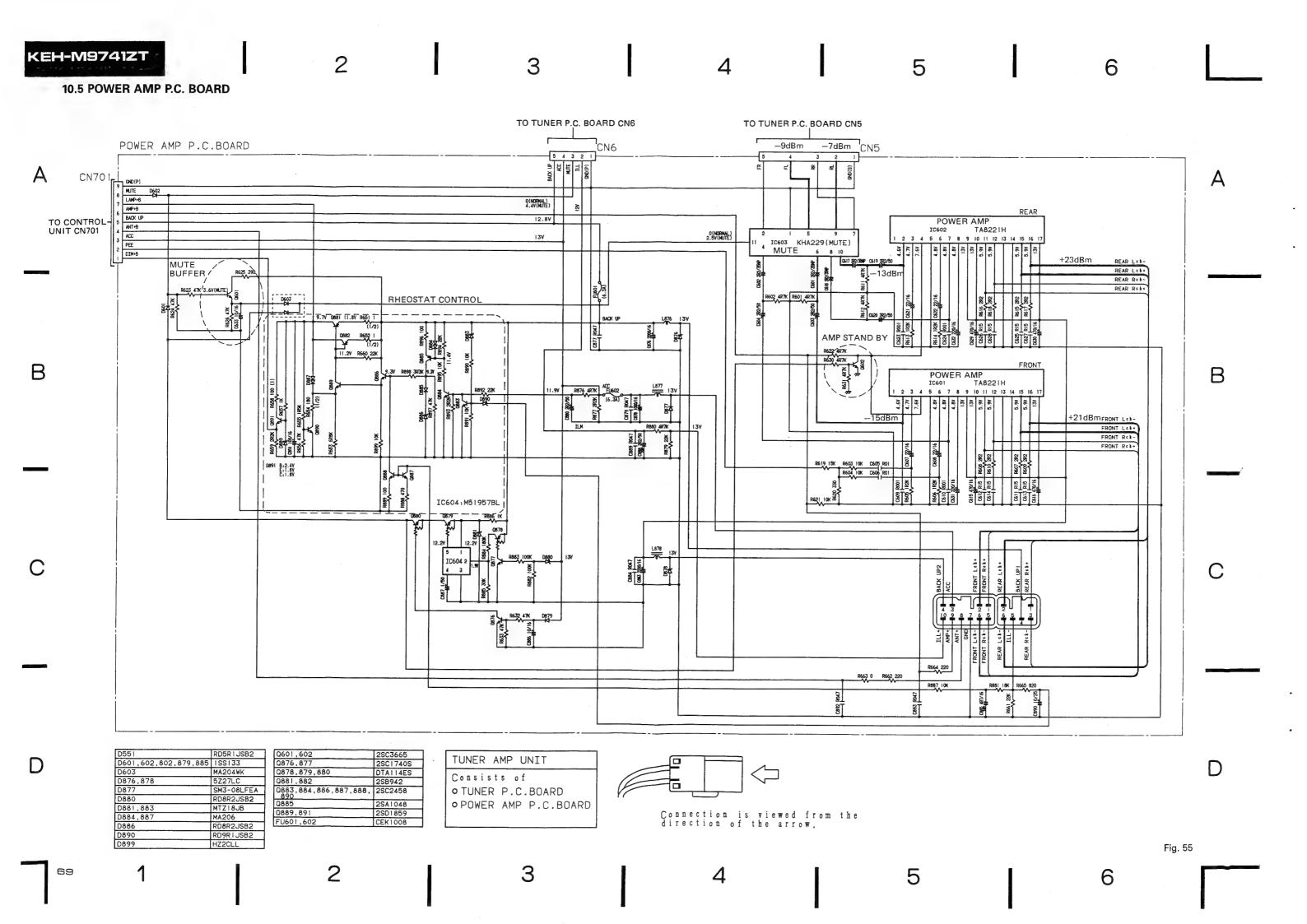












1 2 3 4 5 KEH-M9741ZT

В

D

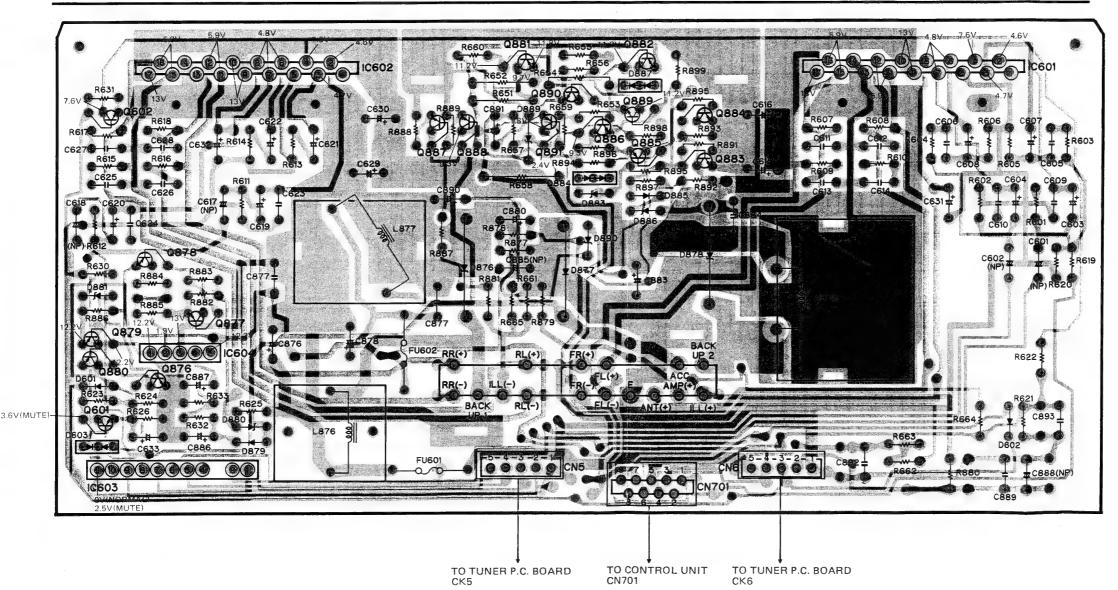
Fig. 56

A

Q879 Q878 Q880 Q876 IC603 IC. Q Q601 Q602 IC604 Q877 IC602 Q887 Q888 Q881 Q891 Q890 Q885 Q889 Q883 IC601

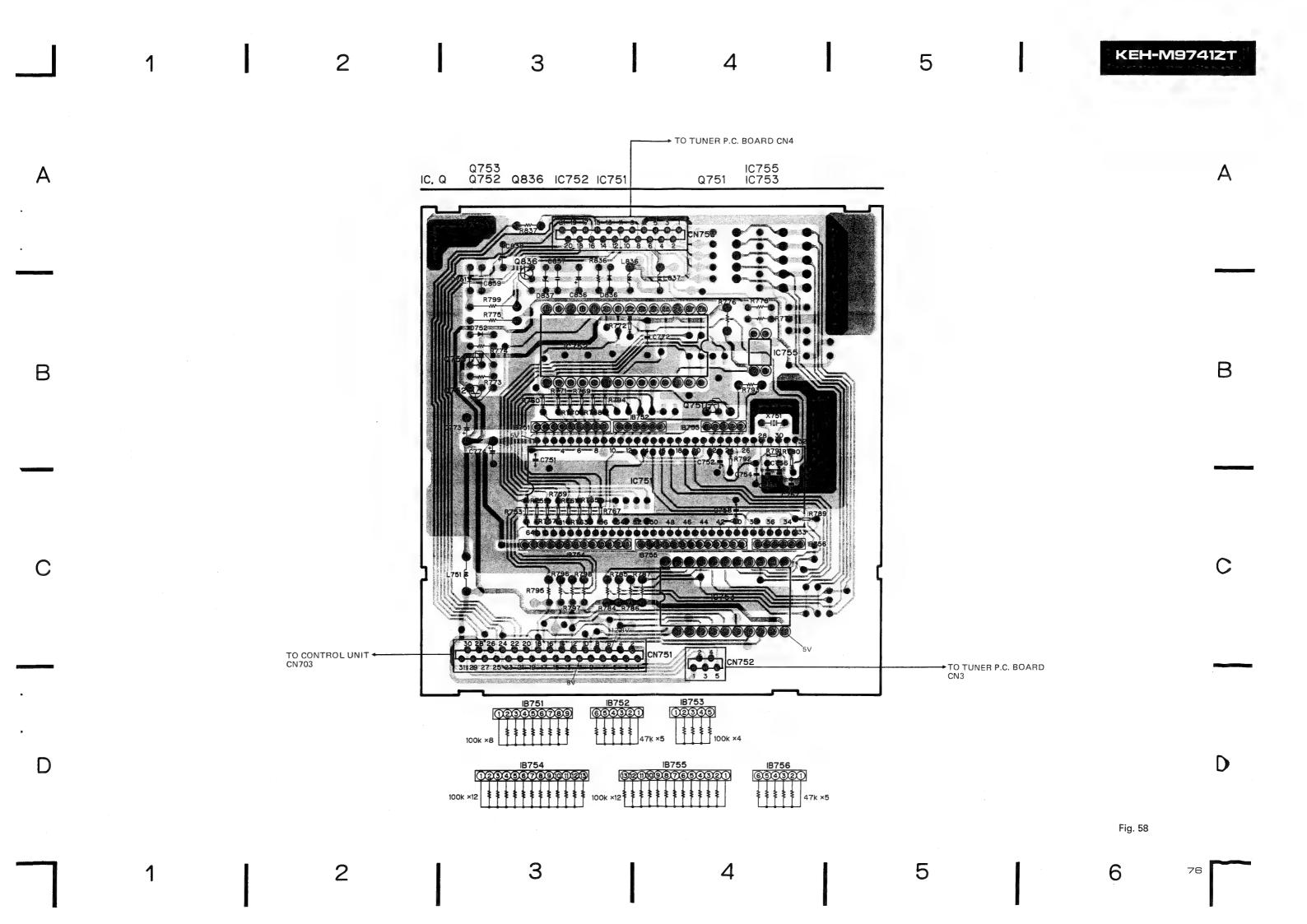
В

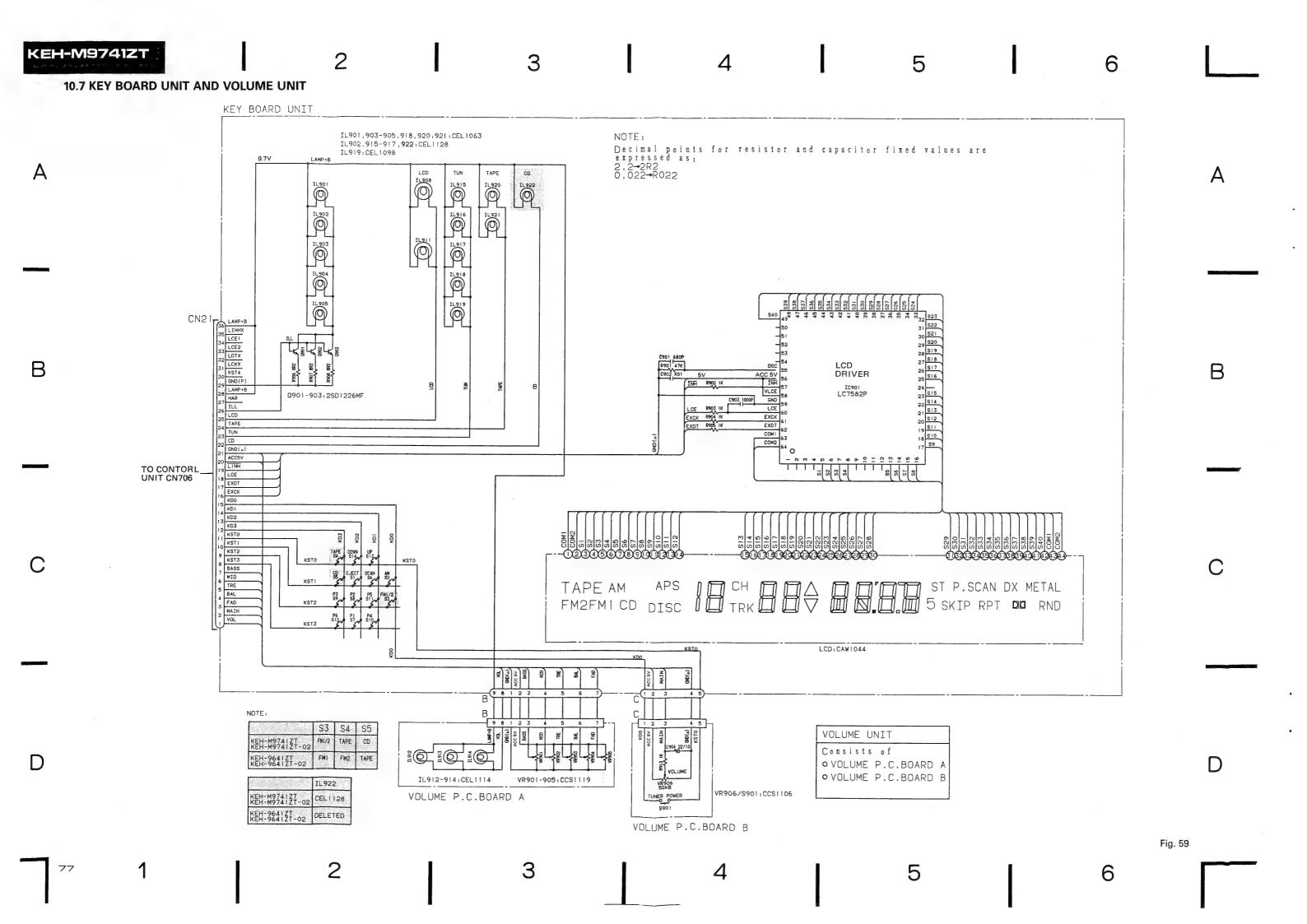
D

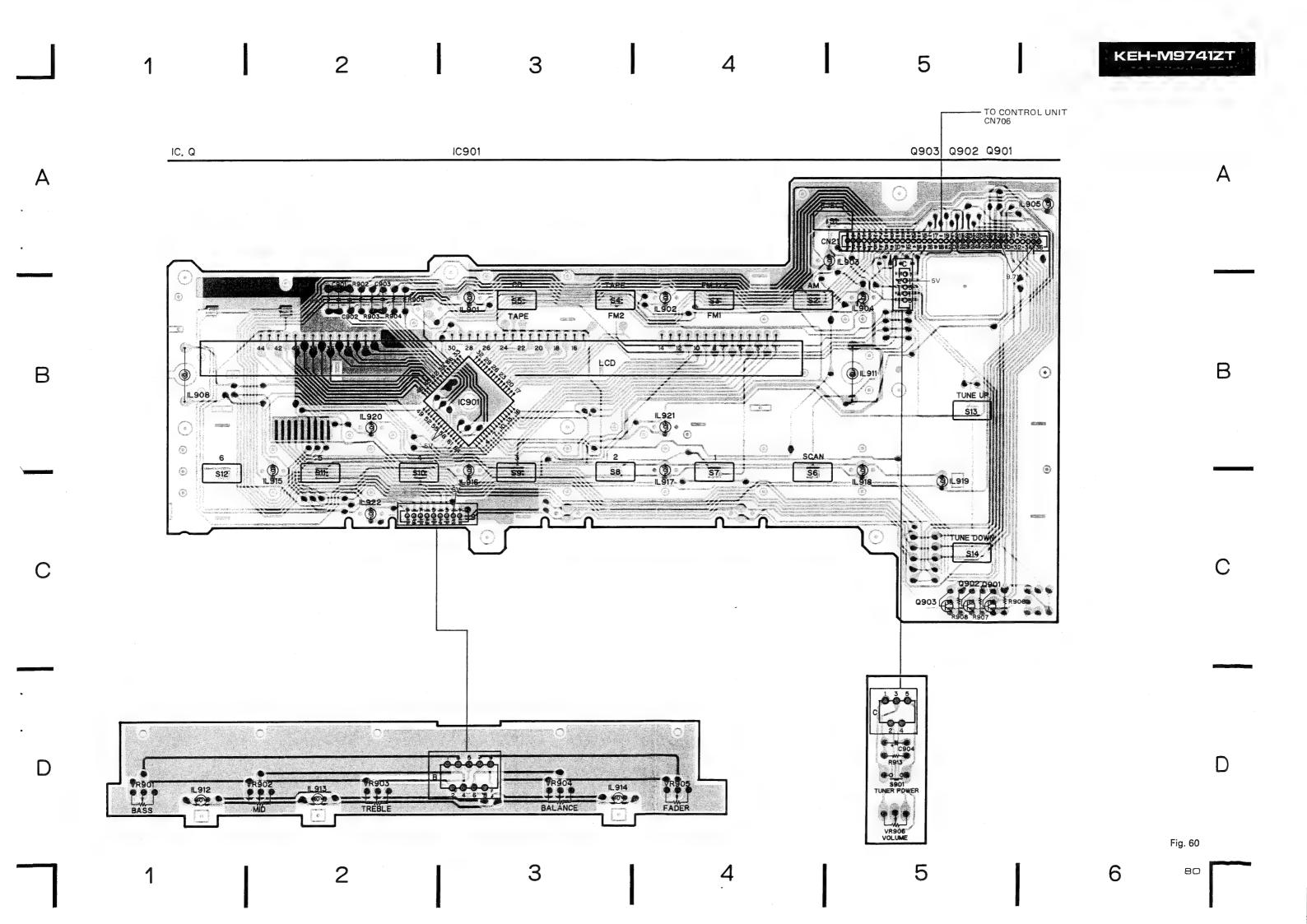


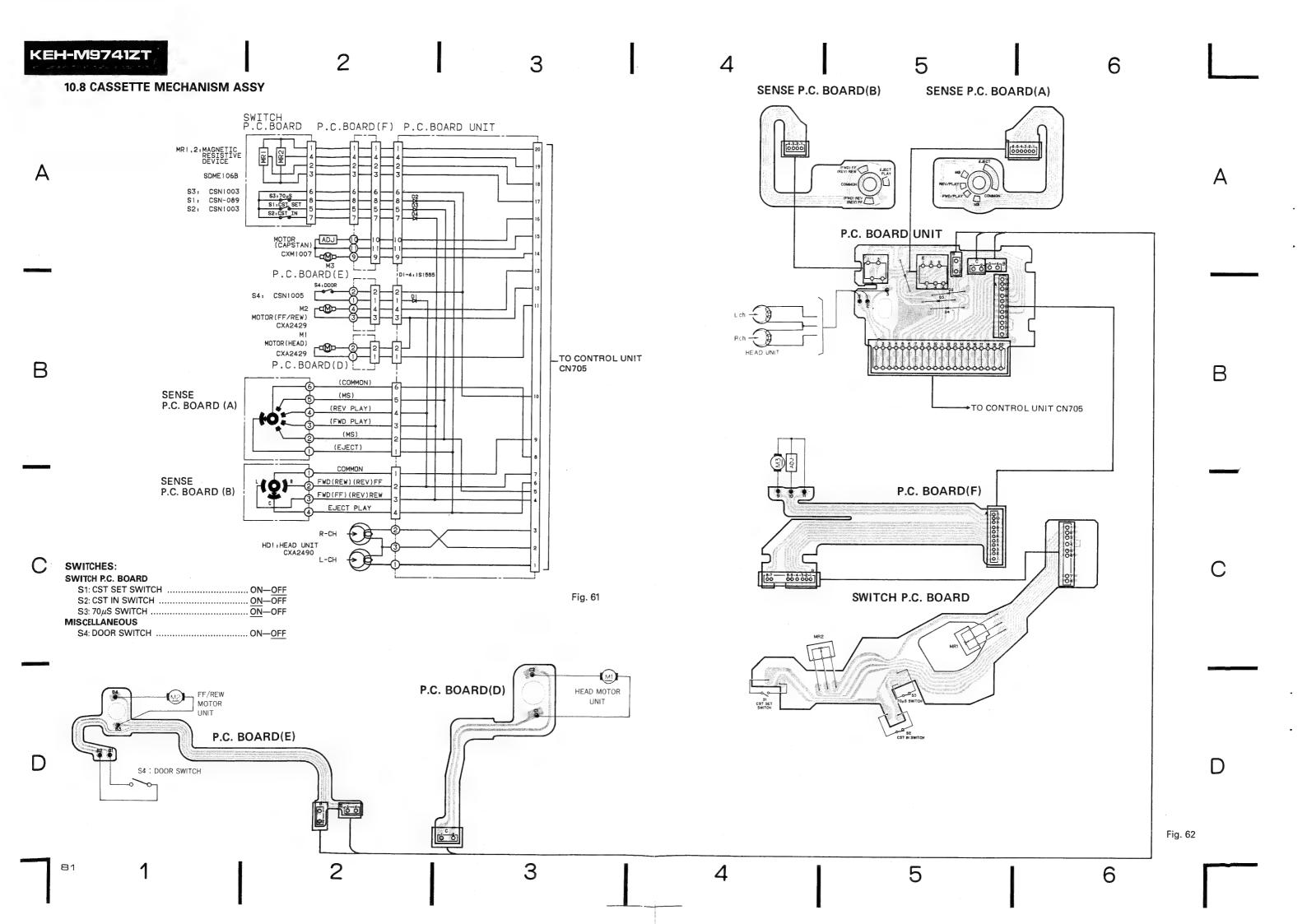
1 2 3 4 5 6 72

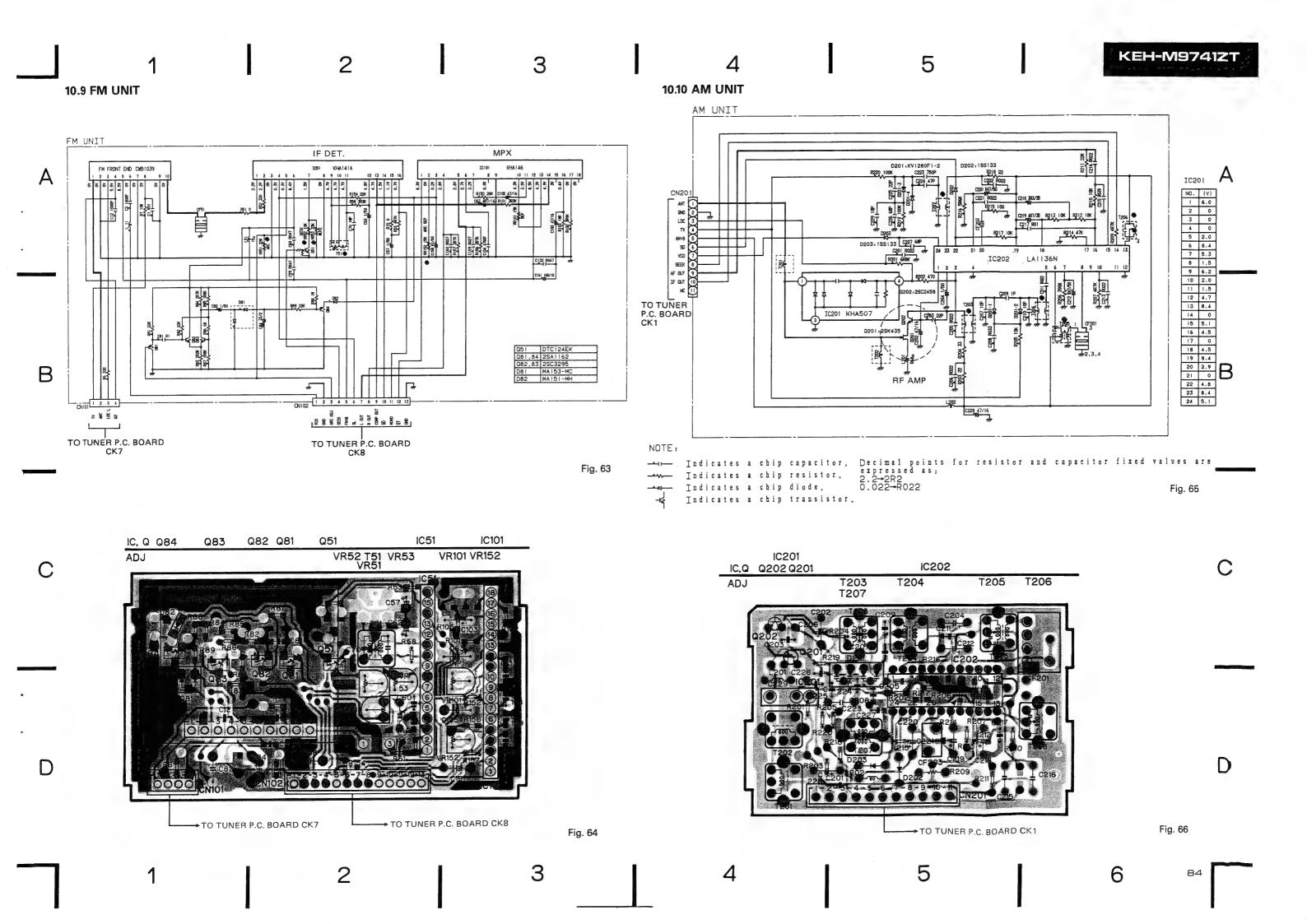
KEH-M9741ZT 3 4 5 6 10.6 COMMUNICATION UNIT (KEH-M9741ZT, KEH-M9741ZT-02) COMMUNICATION UNIT NOTE: ---- : Chip capacitor RX READY --- : Chip resistor : Chip diode : Chip transistor CN751 O LCE1 O LINHX
O LICKX
O LCE2
O BSI CN753-R798 470 B В CD COMMUNICATION 10761 PD5094 BSCK O RDS LK ILL R837 IK ILL RDS+B O TXM+ TO TUNER P.C. BOARD— CN4 _TO CONTROL UNIT CN703 R795 1K O ROS INH BUSY TX/RX 18756 47K×5 VDT LPF R794 1K AUDIO+B GND(S) BUS BUFFER IC753 TAPE L TAPE R DATA TX/RX IC752 MSM82C5 | A-2RS-H REGULATOR CN752 TO TUNER
--P.C. BOARD TAPE L TAPE R CN3 R776 2R2K IC755: ON3111 PHOTO COUPLER R786 1R2K Q751 DTC114ES R785 IR2K Q752 DTA114ES D 0753,836 2SD1859 D751,752 ERA15-02VH D836 188133 TX/RX D837 RD9R1JSB2 BSOX Fig. 57 2 3 4 5 6











KEH-M9741ZT

10.11 AM STEREO UNIT

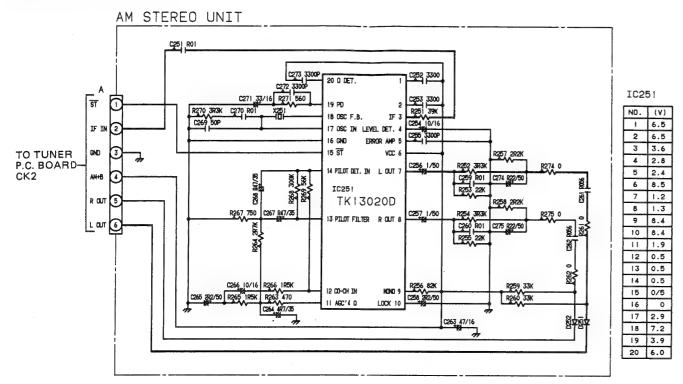


Fig. 67

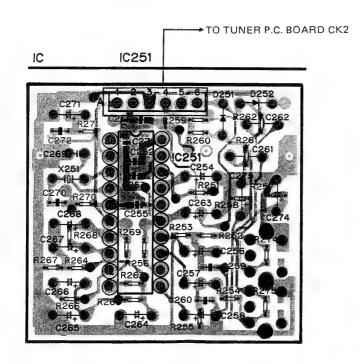


Fig. 68

11. CHASSIS EXPLODED VIEW (1)

• Parts List

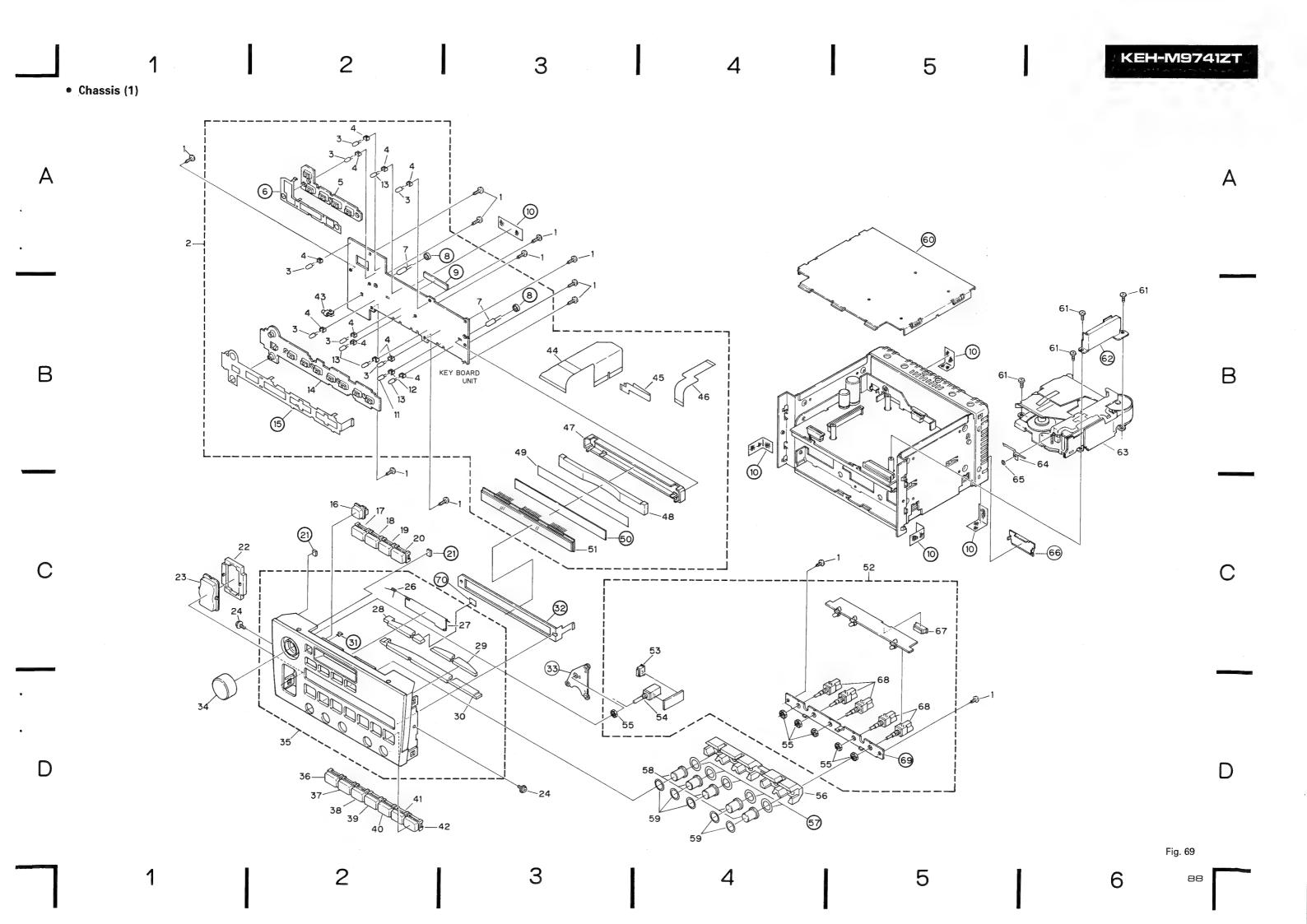
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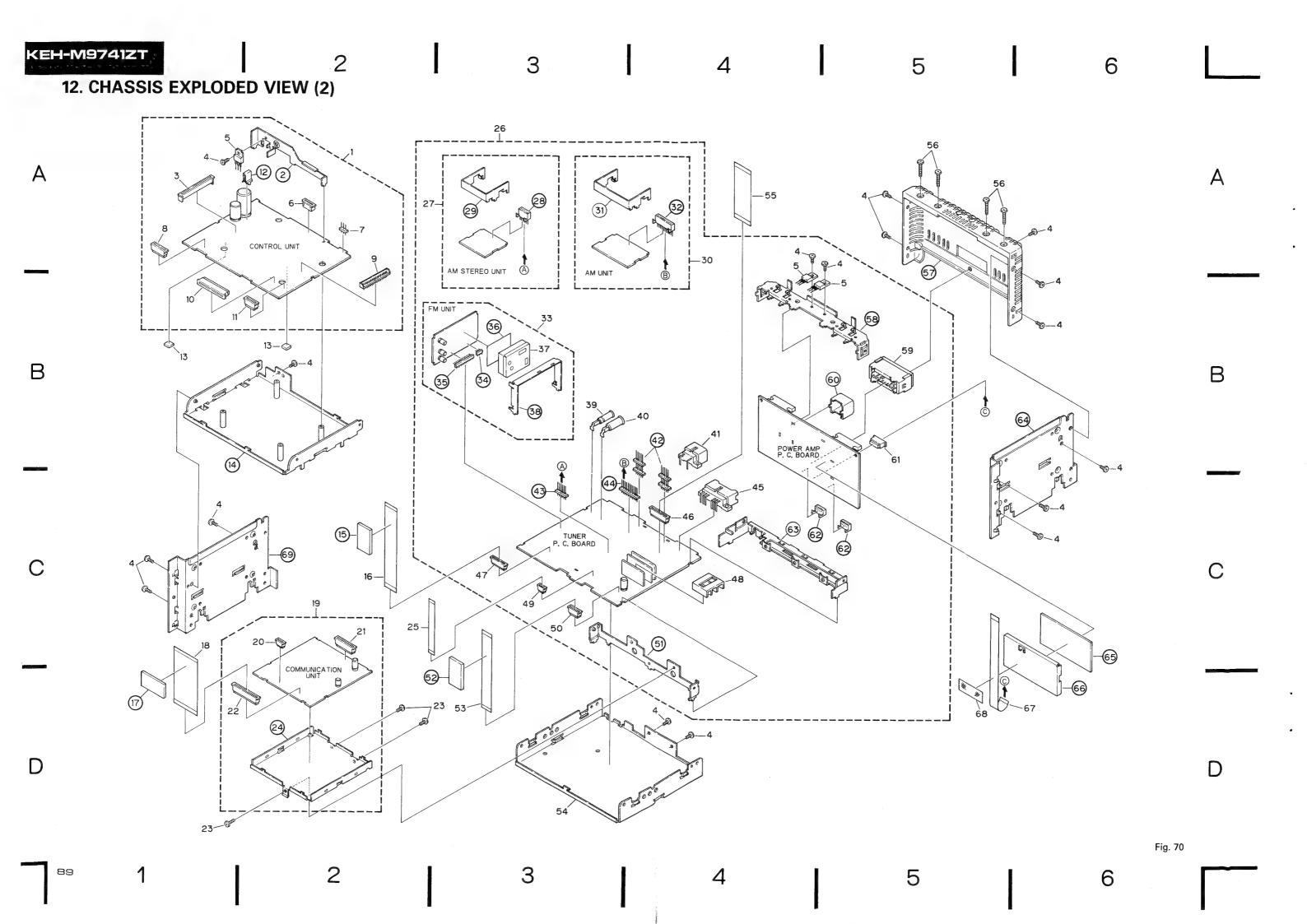
- For your parts Stock Control, the fast moving items are indicated with the marks ** and *.
 - # : GENERALLY MOVES FASTER THAN *.

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

- Parts whose parts numbers are omitted are subject to being not supplied.
- Parts marked by "" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

Mark	No.	Description	*************	Part No.	Mark		Description	Part No.
	1	Screw		BPZ26P080FMC			Lens	CNV1908
(1)	2	Key Board Uni	t (KEH-M9741ZT	CWM1586		30	Lens	CNV1795
		•	KEH-M9741ZT-02)			3 1	Conductor	
•		Key Board Uni		CWM1585		32	Conductor Unit	
		•	KEH-9641ZT-02)			33	Holder	
**	3	Lamp		CEL1063	*	34	Knob	CAA1193
	4	Holder		CNV1906		35	Grille Assy(KEH-M9741ZT)	CXA2949
		Rubber		CNV1888			Grille Assy (KEH-M97412T-02)	CXA2291
	6	Conductor					Grille Assy (KEH-9641ZT)	CXA2248
**	7	Lamp		CEL1124			Grille Assy (KEH-9641ZT-02)	CXA2290
	8	Spacer			*	36	Button (SCAN)	CAC1565
	9	Spacer			*	37	Button (1)	CAC1566
		Sheet			*	38	Button (2)	CAC1567
**	11	Lamp (KEH-M9		CEL1128			Button (3)	CAC1568
		KEH-M9	741ZT-02)		*	40	Button (4)	CAC1569
	12	Holder (KEH-M9		CNV1906			Button (5)	CAC1570
,			741ZT-02)				Button(6)	CAC1571
**		Lamp		CEL1128	**		Lamp	CEL1098
		Rubber		CNV1887			P. C. Board	CNP1630
	15	Conductor				45	P. C. Board	CNP1632
		Button (EJECT)		CAC1689			P. C. Board	CNP2180
		Button (AM)		CAC1572			Holder	CNV1587
*	18	Button (FM1/2)	(KEH-M9741ZT	CAC1575			Lens	CNV1580
			KEH-M9741ZT-02)				Sheet	CNM2420
*		Button (FM1)	(KEH-9641ZT KEH-9641ZT-02)	CAC1573		50	Plate	
						51	LCD	CAW1044
*	19	Button (TAPE)	(KEH-M9741ZT	CAC1576	•	52	Volume Unit	CWM1874
			KEH-M9741ZT-02)			53	Connector	CKS1525
*		Button (FM2)	(KEH-9841ZT	CAC1574	**	54	Volume	CCS1106
			KEH-9641ZT-02)			55	Nut	CBA-066
*	20	Button (CD)	(KEH-M97412T	CAC1680		56	Lens	CNV1584
			KEH-M9741ZT-02)			57	Sheet	
*		Button (TAPE)		CAC1576	*	58	Knob	CAA1156
			KEH-9641ZT-02)			59	Sheet	CNM2362
	2 1	Spacer				60	Cover	
~		Holder		CNV1998			Screw	BMZ 26 P 0 50 FMC
		8utton (TUNE)		CAC1700			Holder	
		Screw		PMS30P050FMC	•		Cassette Mechanism Assy	CXX1685
	25			*****			Arm	
	26	Spring		C8H1214		65	Washer	CBF-046
	27	Door (KEH-M974	•	CAT1211		66	Cover (KEH-9641ZT KEH-9641ZT/0	2)
		Door (KEH-M974		CAT1210			Connector	CK\$1529
		Door (KEH-9641	•	CAT1209	**		Volume	CCS1119
		Door (KEH-9841	ZT-02)	CAT1165			Holder	
	28	Lens		CNV1581		70	Spacer	





• Parts List

ırk No.	0	Description	Part No.			Description	Part No.
1		Control Unit (KEH-M9741ZT	CWM1571			Holder	
		KEH-M9741ZT-02)		•	30	AM Unit	CWA 1 0 2 1
((Control Unit (KEH-9641ZT	CWM1570		31	Holder	
		KEH-96412T-02)			32	Connector	
2	2 H	Holder		•	33	FM Unit	CWE 1131
,	, ,	Connector	CKS1389		3 4	Connector	
		VVIII V V V V	BMZ30P060FMC			Connector	
		0010#	258942			Insulator	
		11211010101				FM Front End	CWB 1 0 3 9
			CKS1561 CKS-291			Holder	
'		1 1 4 3					AUV1AAE
8	8	Connector	CKS1567			Antenna Jack	CKX1005
g	9	Plug	CKS-659		40	Antenna Jack	CKX1006
			CKS1551		41	Connector	CKM1048
	•	KEH-M9741ZT-02)			42	Plug	
1:	1	Connector (KEH-9641ZT	CKS1563		43	Plug	
		KEH-96417T-02)			4.4	Plus	
						Plug Connector (KEH-M9741ZT	CKM1025
	_	Holder	0.0110.0.7.4		43	KEH-M9741ZT-	
13	3	Cushion	C NM2 3 7 4		4.0		CKS1573
13	4	Chassis Assy			4 0	Connector (KEH-M9741ZT	
1 !	5	Cushion				KEH-M97412T-	02)
1	e	Connector	CDE1948		47	Connector	CKS1567
					48	Holder	CNV2155
1	1	Cushion (KEH-M9741ZT KEH-M9741ZT-02)				Connector (KEH-M9741ZT	CKS1557
1	g	Connector (KEH-M9741ZT	CDE1950			KEH-M9741ZT-	02)
•	•	KEH-M9741ZT-02)			50	Connector (KEH-9641ZT	CKS1567
						KEH-9641ZT-0	2)
① 1	9	Communication Unit (KEH-M9741ZT	CWM1566				
		KEH-M97412T-02)				Holder	
2	0	Connector (KEH-M9741ZT	CK\$1557		5 2	Cushion (KEH-96412T	
		KEH-M9741ZT-02)				KEH-9641ZT-0	
2	1		CKS1573		53	Connector (KEH-96412T	CDE 1949
•	•	KEH-M9741ZT-02)				KEH-96412T-0	(2)
		A (NEW MATA1TT	CKS1583		5.6	Chassis	
2	2	Connector (KEH-M9741ZT	CK31303			Connector (KEH-M9741ZT	CDE2193
		KEH-M9741ZT-02)	0420000C0EHO			KEH-M9741ZT-	
2	3	Screw (KEH-M9741ZT	BMZ30P060FMC				BMZ30P120FM(
		KEH-M9741ZT-02)				Screw	DW72011701W
					5 /	Heat Sink	
2	2 4	Case (KEH-M9741ZT					
		KEH-M97412T-02)				Holder	0.4114.0.47
. 2	2 5	Connector (KEH-M9741ZT	CDE2194			Connector	CKM1047
		KEH-M9741ZT-02)			6 (Shield Case	
② ② ② ② ③ ② ③ ② ③ ③ ② ③ ③ ② ③ ③ ③ ② ③ ③ ③ ② ③ ② ③ ③ ② ③ ③ ② ③ ③ ② ③ ③ ② ③ ② ③ ③ ② ③ ③ ② ③ ③ ② ③ ② ③ ③ ② ③ ② ③ ③ ② ③ ② ③ ② ③ ③ ③ ② ③ ③ ③ ③ ③ ③ ② ③ ④ ③ ④ ③ ④ ③ ④ ③ ④ ③ ④ ③ ④ ⑤ ④ ④ ④ ⑤ ④ ④ ④ ⑤ ④ ⑤ ④ ⑤ ④ ⑥ ⑤ ④ ⑥ ⑤ ⑥	2 6	Tuner Amp Unit (KEH-M97412T)	CWM1832			Connector	CKS1561
					6 2	! Connector	
•		Tuner Amp Unit (KEH-M97412T-02)				N. H. (f t	
•		Tuner Amp Unit (KEH-96412T)	CWM1831			l Holder	
•		Tuner Amp Unit (KEH-9741ZT-02)	CWM1557			l Side Panel	
-	27	AM Stereo Unit	CWA 1 0 2 5			i Cushion	
-		Connector			6	i Holder	
					6	Connector	CDE1952
					£	B Sheet	
					0	0 011661	
					c	Side Plate	



13. CASSETTE MECHANISM ASSY EXPLODED VIEW

• Parts List

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	Screw (M1. 4×1 . 4)	HBA-147		46	Screw	PMS26P025FMC
	2	Screw	BMZ20P040FMC		47	Spring	CBH-830
	3	Bush	CLB-663		48	Screw (M2 × 2.5)	HBA-175
	4	Spring	CBE-119		49	Spacer	
	5	Spring	CBH-867		50	Spring	CBL1050
	6	Spring	CBH-837		51	Washer	CBF1025
	7	Arm	CNC2373		52	Washer	CBF-125
	8	Holder Unit	CXA2821		53	Spring	CBH-893
	9	Gear Unit	CXA2088		54	Collar	CLA1110
	10	Washer	CBF1026		55	Screw	BMZ20P025FMC
	11	Gear	CNY-271		56	Gear	CNV1616
	12	Washer	CBF-126		57	Collar	CLA1238
	13	Spring	CBH-835		58	Flywheel	CNV1572
	14	E Type Washer	CBG1003	**	59	Belt	CNT-111
	15	Spring	CBH1277		60	Insulator	
**	16	Pinch Roller Unit	CXA2608		61	Insulator	
	17	Spring	CBH1197		62	Cover	
	18	E Type Washer	YE25FUC		63	Screw	BMZ20P030FMC
	19	Arm	CNV1254		64	Screw (M1. 7 × 5. 5)	C8A-172
	20	Washer	CBF1022		65	Holder	
	21	Collar	C NW-932		66	Screw (M2 × 25)	CBA-165
	22	Spring	CBH-827		67	Guide	
**	23	Reel Unit	CXA2089		68	Spacer	
	24	Spring	CBH-868		69	Switch	CSN1005
	25	Bracket Unit	CXA1481	**	70	Motor Unit	CXA2429
						(FF/REW. Head Posit	i o)
	26	F/R Gear	CNW-944			•	
	27	Screw	CBA1106		71	Screw	HBA-174
**	28	Switch (70 µ S. CST IN)			72	Bracket Unit	0710000
	29	Screw (M1. 7 × 5. 5)	CBA1025		73	Pinch Roller Unit	CXA2609
	30	P. C. Board			74	Screw (M2 × 2.5)	CBA1037
		0 11-1 (007 057)	0011 000		75	Pulley	CNV1255
**	31	Switch (CST SET)	CSN-089		7.0	0 - 1 -	01171010
		Screw (M1.7×3)	CBA-186	**	76 77	Belt	CNT1010
	3 3	Magnetic Resistive Device	2 DWE LOOP		78		
			005-046		79	Pulley	CNV1256
	3 4	Washer	CBF-046 CBH-887		80	Screw (M2 × 5)	CBA1054
	3 5	Spring	CBN-667		0 0	3C(EW (M2 \ 3)	CONTUSA
	3 6	Spring	CBH-886		81	Bracket Unit	
	37	Gear	CNV1075		82	Cover	
	38	Screw (M2 \times 5)	CBA1054		83	Screw (M1. 4 × 8)	CBA1055
	39	Arm Unit	CXD-389		8 4	Spring	CBE-114
	40	Arm			85	Azimuth Rubber	CNY-134
	41	Washer	HBF-179	**	86	Head Unit	CXA2490
	42	Lever	CNV1257		87	Spring	CBH-829
	43	Spring	CBH1196		88	Gear	CNW-939
**	44	Motor (Capstan)	CXM1007		89	E Type Washer	YE12FUC
	45	Chassis Unit			90	Gear	CNV1262

14. ELECTRICAL PARTS LIST

NOTE:

- For your parts Stock Control, the fast moving items are indicated with the marks ** and *.
 - ## : GENERALLY MOVES FASTER THAN *.

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

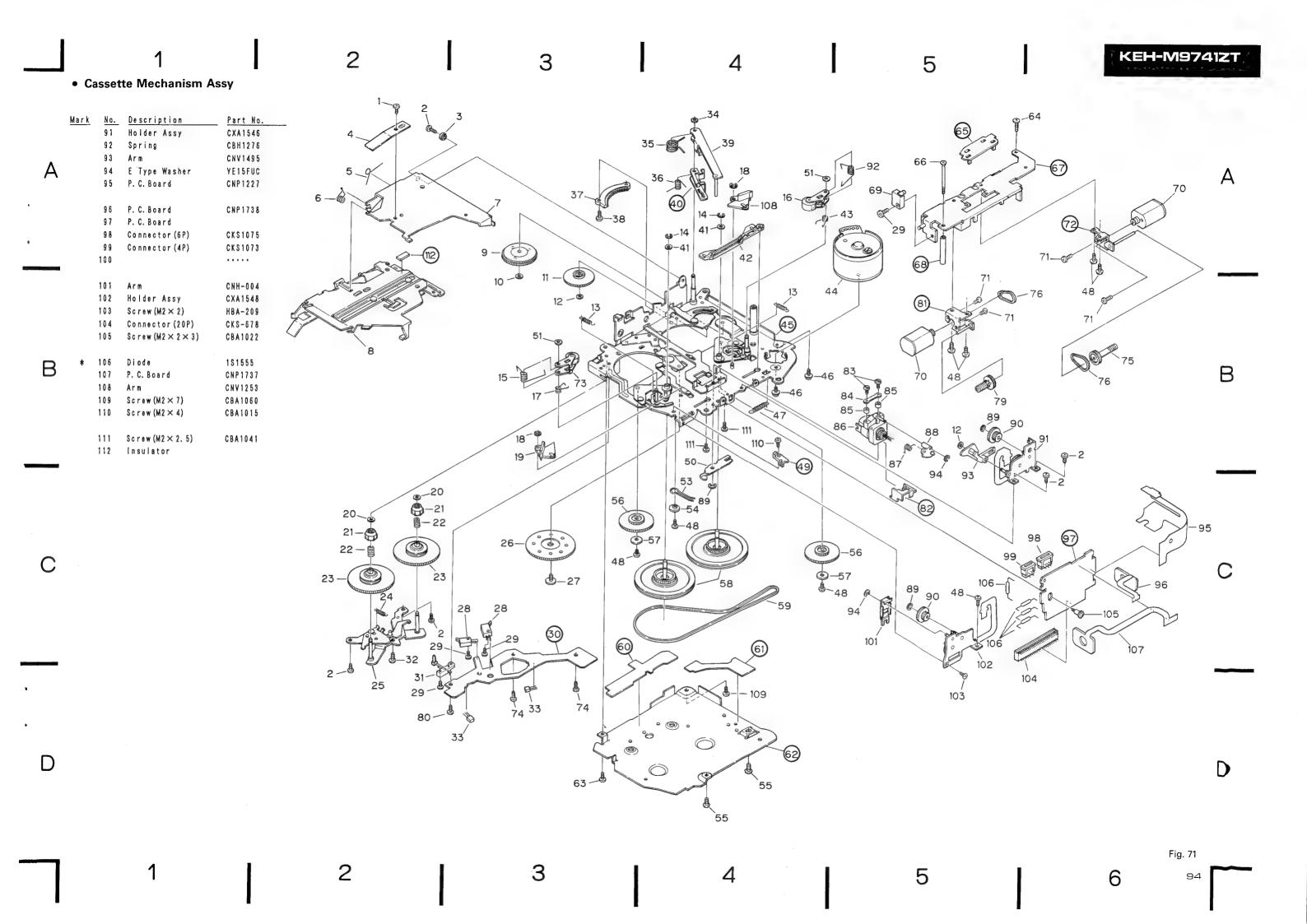
RS1/8S \(\square\) \(\square\) \(\rangle \) \(\rangle\) \(\rangle

Unit	Name	: AM Unit		At the Australia No. 100 No. 1	Dave No
1180	ELLANEOUS			Mark ====== Circuit Symbol & No. ==== Part Name	
11100	LELANCOO			C 201 205 206 211 213 221 222	CKSQYB223K
		= Circuit Symbol & No. ==== Part Name		V	CEA470M16L
				C 203 225 C 204	CCSQCH220J CEA010M50L
	IC 201		K H A 5 O 7 A L A 1 1 3 6 N	C 207 210	CCSQCH100D
	1C 202		2 S K 4 3 5	0 101 110	00000111000
	Q 201		2 S C 2 4 5 8	C 208	CKSQYB333K
	Q 202 D 201	Variable Capacitance Dio			CCSQCH010C
+	U 201	431 lable capacitance bio	00 K1112011 2	C 212 220	CEAR47M50L
	D 202 2	0.2	188133	C 215	COMA393J50
•	L 201	Micro-Inductor	LAURS 8M	C 216	CQMA223J50
	L 202	Ferri-Inductor	LAU680K	V 1	
	T 201	Coil	CTB1051	C 217	CKSQYB103K
	T 202	Coil	CTB-171	C 218	CEA3R3M50L
	1 202	0071	010 111	C 219	CEA4R7M35L
	T 203	Coil	CTB1044	C 223	CQPA751G2A
	T 204	Coil	CTB1026	¢ 224	CCSQCH470J
	T 205	Coil	CTE1030		
	T 206	Coil	CTE1033	C 226	CCSOCH680J
	T 207	Coil	CTB1043	C 227	CCSQCH680J
	1 201	****		C 229	CCSQCH180J
	CF 201	Ceramic Filter	CTF1074	• • • • • • • • • • • • • • • • • • • •	
	CF 203	Ceramic Resonator	CTF1039	Unit Number:	
	01 200			Unit Name : AM Stereo Unit	
RESI	STORS				
				MISCELLANEOUS	
		= Circuit Symbol & No. ==== Part Name		Mark ===== Circuit Symbol & No. ==== Part Name	Part No.
	R 201		RS1/10S682J		
	R 202		RS1/10S471J	** IC 251	TK13020D
	R 203	18	RS1/10S220J	* D 251 252	188133
	R 204	•	RS1/10S330J	X 251 Ceramic Resonator	CSS-041
		10 212 213 217	RS1/10S103J		
				RESISTORS	
	R 206		RS1/10S394J		
	R 207		RS1/10S472J	Mark ===== Circuit Symbol & No. ==== Part Name	
	R 209		RD1/4PS472JL		
	R 211		RS1/10S223J	R 251	RS1/10S393
	R 214		R\$1/10\$473J	R 252 254 265 266	R\$1/10\$152
				R 253 255	R\$1/10\$223
	R 215		R\$1/10\$101J	R 256	RS1/10S823
	R 216		RS1/10S562J	R 257 258	R\$1/10\$222
	R 219	20	RS1/10S104J		
				R 259 260 272 273	R\$1/10\$333
				R 261 262 274 275	RS1/10S0R0
				R 263	RS1/10S471
				R 263 R 264	R\$1/10\$471 R\$1/10\$272

		== Cir	cuit Symbol & No. ==== Part Name	Part No.	mark ==			CIFCUIT Symbol & A	o. ==== Part Name 	Part No.
	R 268			RS1/10S304J	_	88				RS1/10S105J
	R 269			RS1/10S563J	R	101				R\$1/10S332J
	R 270			RS1/10S332J	R	102				RS1/10S392J
	R 271			R\$1/10\$561J		103				R\$1/10\$183J
	LTARA				R	152				R\$1/10\$203J
; APAC	ITORS				R	154				RS1/10S223J
			cuit Symbol & No. ==== Part Name		R	156	157			R\$1/10\$272J
	C 251		270	CKSQYB103K50	CAPACIT	ORS				
			5 272 273	CKSQYB332K50	Mark ==			Circuit Symbol & N	o. ==== Part Name	Part No.
	C 254			CEAO 10M50LS2						
	C 258			CEA2R2M50LS2	С	1				CKSQYB103K50
	0 230	200			C	3	12			CKSQYB102K50
	C 261	262		CQMA563J50	C	57	δ2			CEA010M50LS
	C 263			CEA470M16LS	C	60	99	132		CKSQYF473Z50
	C 264			CEA4R7M35LS	C	63				CEA4R7M16NPLL
	C 267	268		CSZAR47M35						
	C 269			CCG-106		70				CCSQCH180J50
					_	81				CKSYB104K25
	C 271			CEA330M16LS	_			00 5/	• 17	CEA010M50LS2
	C 274	275		CEAR15M50LS2		84 103		33 µ F/	2 V	CCH1055 CEA470M16LS
Init	Number				C	103	103			CLATIONIOLS
	Name		Init		С	154				CKSQYB472K50
,	***************************************				C	158				CEAOR1M50LS2
AISCE	LLANEOU	S			C	159	160			CKSQYB273K50
					C	161				CEATOIMIOLS
			rcuit Symbol & No. ==== Part Name							
	1C 51			KHA141A				Communication Unit(KEH-M9741ZT KEH-M97	41ZT-02)
	IC 101			KHA146	01111		•			,
	Q 51		Chip Transistor	DTC124EK	MISCELL	ANEO	US			
	Q 81		Chip Transistor	2 \$ A 1 1 6 2						
**	Q 82	83	Chip Transistor	2803295				Circuit Symbol & N		
*	D 81		Chip Diode	MA153-MC	** 10	751				PD5094
	D 82		Chip Diode	MA151K-MH	** [0	752				MSM82C51A-2RS
	L 11		Chip Inductor	CTF1086	** 10	753				CWV 1 0 0 2
	L 51		Inductor	LAU150K	** 10					0 К З 1 1 1
	T 51		Coit	CTC1029	** Q	751				DTC114ES
	CF 51		Ceramic Filter	CTF-182	** Q					DTA114ES
**	VR 51		Semi-fixed 22kΩ(B)	VRTB4VS223	** Q					2 S D 1 8 5 9
**	VR 52		Semi-fixed 10kΩ(B)	VRTB4VS103	* D					ERA15-02VH
**	VR 53		Semi-fixed 33kΩ(B)	VRTB4VS333	* D					188133
**	VR 101	152	Semi-fixed 15kΩ (B)	VRTB4VS153	* D					RD9R1JSB1
						751			Inductor	CTF-157
			FM Front End	CWB 1039		836	837	Coil		CTF1070
						751	75^			CWW1271
SEGIO	TORS					3 752 3 753	120			CWW 1 2 4 0 CWW 1 2 3 0
F919	======	== Ci	cuit Symbol & No. ==== Part Name	Part No.	10	3 754	766			CWW1241
						751			c Resonator	CSS1051
ark		52		R\$1/10\$331J	,,	. ,				
lark	R 6			RS1/10S103J	RESISTO	OR\$				
ark	R 6			RS1/10SOR0J						
lark	R 6 R 7 R 51	72		001/100130				Cimania Cumbal & N	o. ==== Part Name	Part No
lark	R 6	72		RS1/10S472J RS1/10S332J				an		
lari	R 6 R 7 R 51 R 53 R 58			R\$1/10\$332J	R	753	755	757 759 761 763 76		RS1/10S102J
lark	R 6 R 7 R 51 R 53 R 58	72 82 89		R\$1/10\$332J R\$1/10\$223J	R R	753 750	755 770	757 759 761 763 76 771 794		RS1/10S102J RS1/10S102J
lark	R 6 R 7 R 51 R 53 R 58 R 81 R 83			RS1/10S332J RS1/10S223J RS1/10S222J	R R R	753 760 772	755 770 789	757 759 761 763 76 771 794		RS1/10S102J RS1/10S102J RS1/10S473J
lark	R 6 R 7 R 51 R 53 R 58	82 89		R\$1/10\$332J R\$1/10\$223J	R R R R	753 750	755 770 789	757 759 761 763 76 771 794		RS1/10S102J RS1/10S102J

95

96



Mark ====	=====	Circuit	Symbol & No.	==== Part	Name	Part No.	Mark	===	=====	= C	ircuit	t Sym	nbol	& No.	. =	===	Pa	rt N	am e	Part No.
	775 799					RD1/2PS121JL	*										-	-		RD6R2JSB1
R						RD1/4PS222JL	*	D	812											ERA15-02VH
R						RD1/4P\$331JL			813											HZ6LB1
R						RD1/4PS562JL			814											RD5R6JSB2 RD5R1JSB1
R	784					RD1/4PS682JL	*	D	853											NUJNIJODI
R	785 786	187				RD1/4PS122JL			701					rri-l						CTF-157 LAU150K
R						RS1/10S471J			702				r e	rri-l	nouc	tor				CWW1048
R	791					RS1/10S105J			701	702										CWW1230
R	793					RD1/4PS473JL			702 7 704	1 4 3										CWW1231
	795 796					RD1/4PS102JL		1 0	704											
R	797 798	836				RD1/4PS471JL		I B	705 7	706	709 71	0								CWW 1 2 3 3
C 4 D 4 C I T O	De							1 B	707											CWW1153
CAPACITO	, no							18	708											CWW1126
Mark ===	======	Circuit	Symbol & No.	==== Par	t Name	Part No.			851											CWW1232
									701					ystal						CSS1029 VRTB6VS471
С	751 772					• •	**	VK	501	502			3.6	mi-fi	IXEU	410	\$2	(0)		***
C	752 754	758				CKSQYB102K50	RESI	0.7.2	2.0											
	755 756					CCSQCH101J50 CCSQCH330J50	N L O I	310												
	757					CEA101M10LS	Mark	==	=====	==	Circui	it \$y	ymbol	& No	0.	====	. Pa	art	Name	Part No.
C	773					VENTO TIME VEO														
•	774					CASA010M16					702 70				5 85	3 87	0 1	871		
-	836					CEA470M16LS					818 82			9						RD1/4PS103.
	837 839					CKPYY103M16L				820	824 87	27 82	29							RS1/10S103.
C	838					CEA221M10L2			505	705	708 70	00 71	10 71	1 71	2 71	4 71	15	7.42		RD1/4PS101.
								К	505	105	108 11	03 11	10 11	1 (1)	3 11	4 11		, 42		11017 41 0102
Unit Nu								R	701											RS1/10S105
Unit Na	ame :	Control	Unit							707	718 7	38 74	40 93	0 93	5 93	7 94	46	948		RS1/108473
HI CACLL A	ANFONS										730 7									RS1/108222
MISCELLA	ANEUUS							R	716	717	719 7									RD1/4PS471
		Circuit	Symbol & No.	==== Par	t Name	Part No.		R	720		(KE	H-M9	74121	KEH	-M97	41ZT	1-0	2)		RD1/4P8471
						KHA147A		R	720		(KE	H-96	41ZT	KEH-	9641	ZT-0	02)			RD1/4PSORO
** IC						PD4167B					723 7									RD1/4PS222
** IC						PDH001		R	733		(KE	H-M9	7412	T KEH	-M97	4121	T - 0	2)		RD1/4PS104
** 1C						M51957BL			733					KEH-						RD1/4PSORO
** 1C	704					CWV 1001		R	736	815	816 8	17 9	31 9	32 93	4 93	8 9 4	42	943		RS1/10S104
** IC	705					TC4028BP		R	737	739	741 7	43 7	45 7	46 74	7 74	18 74	49	923		RS1/10S102
	706 812	851				DT5C144E		R	744	922	925									RS1/10S471
	707 708					MB88306P		R	811											RD1/4PS223
** 1C	709					TC35095P			812											RS1P150JL RD1/4PS222
** C	710					CWW1178		R	825	851	852 9	33 9	61 9	02 90	0					
						KHA241					832 9			50 95	1 95	52 9	53	954		RD1/4PS102
** 1C		821 82	2 833 852 867	869		DTC144ES					863 8	64 8	65							RD1/4PS8R2 RD1/4PS9R1
** 0		001 00	. 000 001 001			DTA144ES			861				7117	T V C 11		7417	т (0.23		RD1/4PS130
	701 702	816 81	7			2SC2458			866		() ()	H-M9	11411	T KEH	1-M3	14+2	1-0	12)		RD1/4PS6R8
** Q						2 \$ 8 9 4 2		К	867											11017 1100110
-								R	868											RD1/4PS221
** Q						2 S C 3 4 7 4		R	872											RD1/4PS473
** 0						2 S D 1 8 5 9 D T C 1 4 4 T S					928 9	929								RS1/10S102
	814 81		0 050			25B1243			936											RS1/10S223 RD1/4PS104
	818 819 823 82		0 808			DTB133HV		R	940	941										KU 1/473 104
T# 4	010 01	•				D.T.O		R	944	945	947 9	949 9	963 9	65 91	67 9	68				RS1/108104
	826 83					DTC114ES		R	955	956	957									RD1/4PS102
** 0	827 82	8 829				2 S B 1 2 4 3 D T B 1 1 3 Z V			960											RS1/108473
** "	851 86	864 86	3 8 / V	861		2SD1859		R	969											RS1/10847
** 0		4 855 85 KEH)	6 857 858 859 -M9741ZT KEH-	M9741ZT-02)	2 S D 1 8 5 9														
** Q																				
** 0 ** 0 ** 0	860		H07417T WEI	M07417T_02	1	DTR1137V														
** 0 ** 0 ** 0	860 865	(KEH	-M9741ZT KEH-	M97412T-02)	DTB113ZV 188133														
** Q ** Q ** Q ** D	860 866 501 70	(KEH 2 708 70	9 710 711 712	713 714		DTB113ZV 188133 188133														
** Q ** Q ** Q * D	860 865	(KEH 2 708 70	-M9741ZT KEH- 9 710 711 712 -M9741ZT KEH-	713 714		188133														

CAPÁCITORS		Unit Number:	
Mark ====== Circuit Symbol & No. ==== Part Name	Part No.	Unit Name: Tuner Amp Unit	
C 501 502 C 503 504	CKPYB681K50L CEANL4R7M35LL	Tuner Amp Unit	
C 505 506 718 719	CEA470M6R3LS	Consists of	
C 507 508	CEA010M50NPLL	• Tuner P. C. Board	
C 509	CEA010M50LS2	• Power Amp P. C. Board	
C 510	CEA221M10L2 CEA470M16L2		
C 511 C 512		MISCELLANEOUS	
C 701 702	CCSOCH330J50	mi voccinicov	
C 703 716 813 818 822 824 835 875	CKSY8473K50	Mark ====== Circuit Symbol & No. ==== Part Name Part No.	
C 704 705	CASA010M16	** IC 25 KHA168	
C 706 712 713 717		** IC 27 PA5011	
C 707	CEAR22M50L2	** 1C 451 CX-7925B	
C 708 C 709	CEANL3R3M50LL CQEA223J50	** 1C 551 CWV1004 ** 1C 552 KHA163	
C 109	CULAZZJJJU	** 1C 932 KITA 10 3	
		** C 553 (KEH-M9741ZT KEH-9641ZT) KHA222B	
		** IC 553 (KEH-M97412T-02 KEH-9641ZT-02) KHA249B	
C 710	CQMA103J50LL		
C 714 715 817 832 851 950 953 954	•	** IC 556 (KEH-M97412T KEH-M97412T-02) KHA232A ** IC 601 602 TA8221H	
C 720 833 834 955 C 811 470 µ F/16V	CK5UYB103K50	TA 10 001 002 1A822 IN	
C 812 816	CEA100M16L2	** IC 603 KHA229	
		** 1C 604 M51957BL	
C 814 825	CEA010M50L2	** Q 61 454 2SC3113	
C 815 4700 µ F/16V	CCH1061	** Q 163 164 883 884 886 887 888 890 2SC2458 ** Q 452 2SK33 0	
C 819 823	CEA101M10L2 CCH1001	** 0 452 25K330	
C 820 2200 μ F/16V C 821	CEA470M16LS	** Q 456 457 878 879 880 DTAIL 4ES	
C 874	CEA100M25L2	** Q 458 803 DTC12 4ES	
		** Q 551 2\$C2872\$	
		** Q 601 602 28C36 65	
Unit Number:		** Q 862 2SB1243	
Unit Name : Key Board Unit		** 0 804 DTB11 4ES	
MISCELLANEOUS		** Q 876 877 2SC17 40S	
		** Q 881 882 2\$8942	
Mark ====== Circuit Symbol & No. ==== Part Name	Part No.	** Q 885 2SA10.48 ** Q 889.891 2SD18.59	
** IC 901	LC7582P	** Q 889 891 2\$D18 59	
** : Q 901 902 903	2SD1226MF	* D 26 27 1SV99	
** !L 901 903 904 905 918 Lamp 8V 60mA	CEL1063	* D 28 61 161 162 454 601 602 802 879 885 18813 3	
** 11 902 915 916 917 Lamp 8V 60mA	CEL1128	* D 455 RD2R7 ESB1	
** 908 911	CEL1124	* D 551 RD5R1 JSB2	
** 919	CEL1098	‡ D 603 MA204₩K	
** L 919	CEL1063	* D 876 878 5727LC	
** 11 922 (KEH-M9741ZT KEH-M9741ZT-02) Lamp 8V 60mA		* D 877 SM-3- O8LF	ΕA
LCD	CAW1044	* D 880 RD8R2 JSB2	
		* D 881 883 MTZ18 JB	
RESISTORS		* D 884 887 MA206	
Mark ======= Circuit Symbol & No. ==== Part Hame	Part No.	* D 886 RD8R; JS82	
		* D 889 HZ2CLL	
R 901	RD1/4PS473JL	* D 890 RD9R) JSB2	
R 902 903 904 905	RD1/4PS102JL	1 26 Ferri-Inductor LAUROM	
R 906 907 908	RD1/4PS8R2JL	L 451 Ferri-Inductor LAUIjOK	
CAPACITORS		L 876 Choke Coil CTH1069	
		L 877 Coil CTF-135	
Mark ======= Circuit Symbol & No. ==== Part Name		L 878 Coil CTH1170	
0.005	CKPYB681K50L	T 26 Transformer CTC-195	2000
C 901 C 902	CKPYY103M16L	CG 26 27 DSP-10 IM-5	10 A R
C 903	CKPYB102K50L		
		CR 26 CWW114 5	
		X 451 Crystal Resonator CSS11 1	
		** VR 551 Semi-fixed 10kΩ (B) VRT8(V \$103	
98		** FU 601 602 Fuse 6. 3A CEKI(O 8	

RESISTO	RS		Mark	===		===	Cir	cuit	Syı	mbol	1 &	No.	± 1		Part	Name	P	Part		
Mark ==	====== Circuit Symbol & No. ==== Part Name	Part No.		C	451	465											C	CEA47	0M16	5 L 2
					453													CGCYX		
	26	RD1/4PS681JL		-	454													ССССН ССССН		
	28 458 461 558 591 657 886	RD1/4PS102JL RD1/4PS223JL			455						7	ı F/1	6 V					CCHIO		,,,,
	29 660 661 877 879 892 894	RD1/4PSOROJL		C	459					4.	. / μ	1171	0 4					,01110	• •	
	32	RD1/4PS104JL		r	460												(COMA 1	031	0
R	61 882 883	1017 47 010402			461													CKCYE		
D	62 188 559 560 579 603 604 621 890	RD1/4PS103JL		-			59	593	60	5 6	06	807	808	809	1		(CKPYY	1031	416 L
R		RD1/4PS123JL			464												(CEA2F	2M5	LS2
R	64 65 468 469	RD1/4PSOROJL		C	551	553	}										(CEA47	1811) L 2
R	161 162 163 164 171 172 189 250	RD1/4PS222JL																		
R	169 170	RD1/4PS333JL		-				7 558	5 5 6	2 5	63	564	565					CQEAT		
		DD4 //D044011		-	571													CEASE		
	173	RD1/4PS100JL RD1/4PS391JL		_				7 618										CEA2F		
	190 625	RD1/4PS471JL		-				9 620 1 622		U								CEA2		
	451 452 453 888 454 887 898	RD1/4PS332JL		·	001	000	0 0 2	1 022	L											
	459 460 557	RD1/4PS272JL		С	611	617	7 61	3 614	4 62	5 6	26	627	628					COEA	154J	6 3
n	455 400 501							9 630									3	CCH-	114	
R	462 655	RD1/4P\$152JL			631						,							CEA2	2 1 M 1	6 L 2
	463 592 601 602 611 612 622 630 631 876	RD1/4P\$472JL		C	876	883	3					2200	μF	/16V	٧			CCHI		
R	470 590 623 624 626 632 633 656 805 807	RD1/4PS473JL		C	877	879	88	4 889	9 89	2 8	93							CGCY	K473	K 2 5
	553 554 659 803 893	RD1/4PS222JL										_		,				00111	0.0.0	
R	551 552 (KEH-M9741ZT KEH-M9741ZT-02)	RD1/4P\$272JL		-						1	000	μ F/	/15V					CCHI		euni
		RD1/4PS562JL			885													CEA1		
	555 556 808 567 568 569 570	RD1/4PS823JL			890 891													CEAT		
	571 572	RD1/4PS152JL		C	691													ULHI	V 11771	V L Z
	573 574	RD1/4PS182JL	Unit	N	umbe	r:														
	605 606 613 614	RD1/4PS122JL	Unit	N	ame	:	۷ol	ume	Uni	t										
	607 608 609 610 615 616 617 618	RD1/4PS2R2JL																		
	619	RD1/4PS153JL	Vo	lum	e Ur	nit			1											
	620	RD1/4PS331JL				_			\dashv											
	651 652	RD1/2PS010JL			sts				1											
R	653	RD1/4PS682JL						rd A												
	654	RD1/2PS18IJL	<u> </u>	_					i	i										
	658	RSIPIOIJL																		
	662 664 804 806	RD1/4PS221JL														t Nam				
	663	RD1/4PSOROJL																		
R	665	RD1/4PS821JL						4 90				p 8V		R A				CELI		
					906		-	13 90				ume ume/		tch				CCS1		
R	809	RD1/4PS561JL	**		913		301			,	¥ () ()	ume/	3111	Con						02JL
R	880	RD1/4PS472JL			904													CEA2		
R	881	RD1/4PS183JL				•													• • • • •	
	884	RD1/4PS184JL RD1/4PS303JL	Unit	N	lumbe	er:														
R	885	NUI/473303JL	Unit					tch	P. C.	. Bo	ard									
R	887	RD1/4PS103JL																_		
	889 896	RD1/4PS101JL														t Nam				
R	8 891 895 899	RD1/4PS103JL																		
R	8 897	RD1/4PS473JL												SET	•	s)		CSN- CSN1		
CAPACI			4.1		1											S) Devi				
	====== Circuit Symbol & No. ==== Part Name																			
	2 26 32 34 62 64 163 166 170 171 186	CKPYY103M16L																		
	27	CCPCH100J50L																		
	28 63 568 569 570 609 610 623 624	CKPYB102K50L																		
(C 29 33 633 886	CEA100M16L2																		
(30 552	CEA220M10L2																		
(C 31	CKPYB471K50L																		
	C 61 324 452 456 590 591 806	CGCYX473K25																		
	C 167 168 554	CEA010M50NPLL																		
(C 169 566 567	CEA101M10L2																		
(C 185	CEAR15M50LS2																		

KEH-M9741ZT

Unit Number:
Unit Name : P. C. Board Unit

Mark ======= Circuit Symbol & No. ==== Part Name Part No.

‡ D 1 2 3 4 151555

Miscellaneous Parts List

Mark ======== Circuit Symbol & No. ==== Part Name Part No.

‡ HD 1 Head Unit CXA2490

‡ M 1 2 Motor Unit (Head, FF/REW) CXM2429

‡ M 3 Motor (Capstan) CXM1007

‡ S 4 Switch (Door) CSN1005